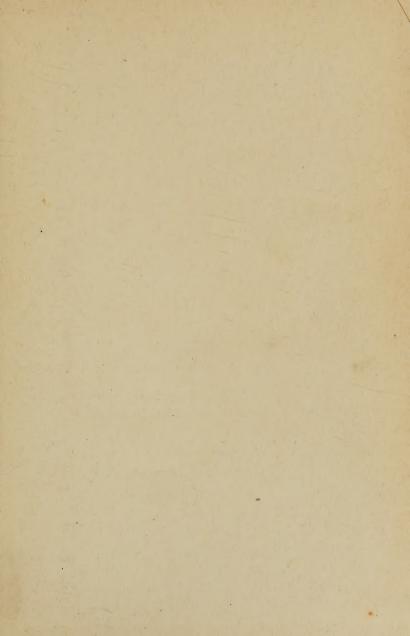
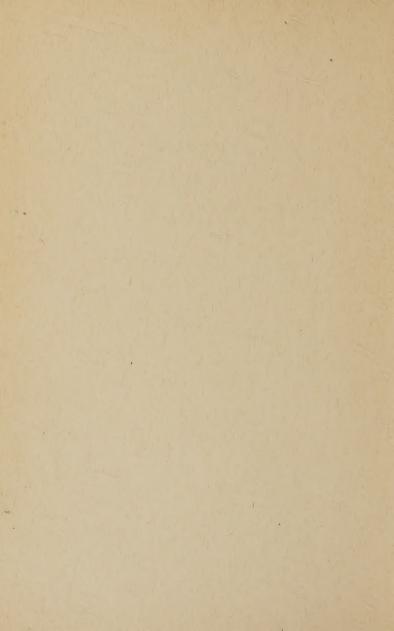
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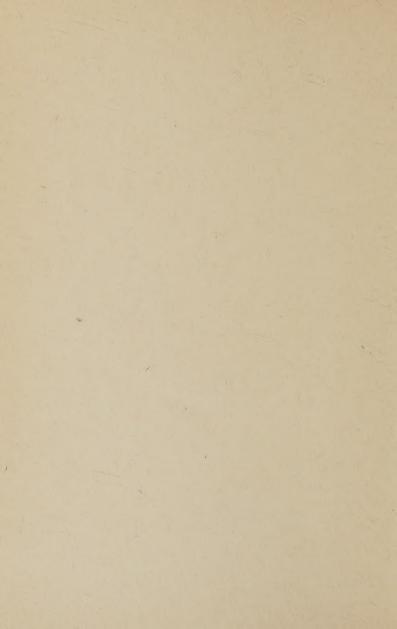




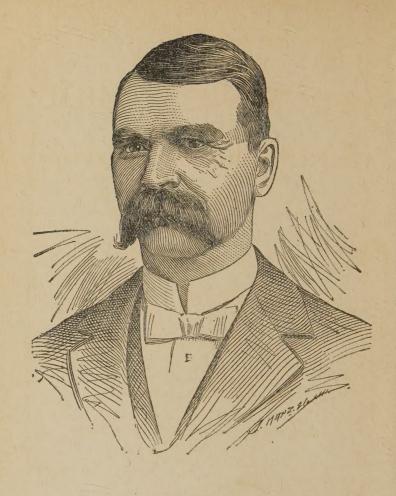












Guns very truty

STANDARD EDITION

The BUSINESS GUIDE

OR

Safe Methods of Business

BY

J. L. NICHOLS, A.M.

Late Principal of North-Western Business College Naperville, III.

WITH

AN INTRODUCTION

BY

PRESIDENT DR. L. H. SEAGER

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E. E. MILLER, Ph. B.

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PREFACE.

The purpose of this book is embraced in its title, The Business Guide, or Safe Methods of Business.

The necessity of having a book comprising the practical in business, including forms, points of law, hints and helps in transacting business successfully, together with the most useful tables for rapid computation or for reference, was forcibly impressed upon the mind of the author while acting as principal of a Business College, in which he had ample opportunity to study the needs of our young men before entering the active business world.

After mature thought his purpose to relieve the felt want of business circles and individuals in general took shape in the first edition of the Business Guide. That the public has appreciated his efforts is seen in results better than told in words. The many succeeding editions, the large sales, and the interest of the public clearly shows that this volume is filling a place that no other fills. Although the author has finished his labors and has passed to his reward, yet Nichols' Business Guide is having an ever-increasing educative influence among the masses.

Twenty-six Years have passed since the first edition was published. These have been years of intense activity and of great progress in all lines. Notwithstanding the success that has attended this volume, our constant effort is to keep it an allaround up-to-date book, a book every item of which can be relied upon as correct.

This edition has been rearranged and revised and printed from an entirely new set of plates. We are determined that the Business Guide shall continue to be the leading book on practical business. The advice and assistance of able and competent specialists in different lines of business have greatly aided us in making improvements and in giving accurate and at the same time boiled down statements. All the best and recent volumes on business have been consulted and valuable suggestions taken therefrom. Much of the book has been re-

written, while every part and line has passed under the scrutinizing eye of the critic. All commercial and legal forms are of the very latest. Great pains have been taken to make all illustrations apt and instructive. We are free to say without fear of contradiction that this is decidedly the best book in the market for the money.

The Business Guide is adapted to all classes, not to a certain profession or class of men, but to all who are called upon to do business. And whom does this not include? With the recognition that real ment and true excellence must be depended upon tor success, and with the confidence of an appreciation of diligent, painstaking labor and research, this revised edition is sent forth to the millions who may thereby be led to do the right thing, at the right time, in the right place and thus turn defeat, failure, loss of reputation, property, or home into intelligent actions, profitable investments, pleasant homes and prosperous, pappy and successful lives.

PUBLISHERS.



BENJAMIN FRANKLIN.

SEEST THOU A MAN DILIGENT IN HIS BUSINESS.
HE SHALL STAND BEFORE KINGS.—Prov. XXII :29.



DR. L. H. SEAGER,

PRESIDENT OF NORTH-WESTERN COLLEGE AND AN EDUCATOR OF THE

PROGRESSIVE, MODERN TYPE.

INTRODUCTION TO REVISED EDITION.

Never was competition greater than now and never was there a greater demand for business principles applied to daily life than at this present time. The man who knows has his battle half won, while he who is self-satisfied and lags behind is lost.

Every one must largely decide and direct his own course in life, and the only service others can render is to give us data

from which we must draw our own conclusions and decide our own course.

I count it a rare privilege to have known the author of this book. I have also been acquainted with the book itself for some years. Wherever it has gone it has blessed mankind. The advice and maxims are the result of expert experience and so plainly written that "he who runs may read." Indeed it would be hard to find a work covering so many subjects and at the same time so entirely free from useless and unpractical matter.

This volume is written for the home, the farm, the office and the shop. Its genius is that of helpfulness, and there would be less friction in the world, less confusion in families, less litigation over wills and legacies, fewer tangles in business and less wear and tear generally if the principles set forth in the "BUSINESS GUIDE" were more closely observed and carefully followed. It has deservedly won its place with the helpful and more popular books of every home and office library.

Naperville 111., Jan. 1, 1912.

L. H. SEAGER.

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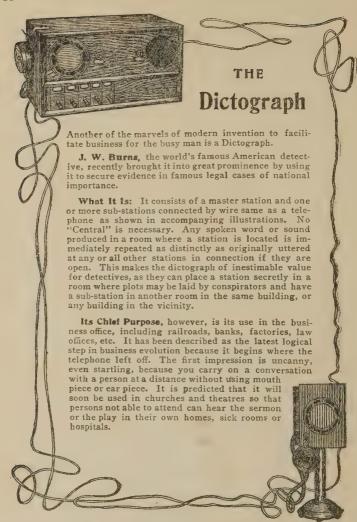
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IT MAKES THE SPARKS FLY.

THE BUSINESS MAN'S CODE.

BUSINESS, ENERGY, PUSH.

Business, in every age of the world, has been the chief pioneer in the march of man's civilization. Blessings everywhere followits advancing footsteps. We honor and respect our upright, energetic business men. They start every noble project; they build our cities, and rear our manufactories; they whiten the ocean with their sails, and blacken the heavens with the smoke of their steam vessels and furnace fires; they draw treasures from the mines, and give to mankind the various products of every clime and the benefits of skilled labor throughout the world. These results are achieved not by love of ease or idle wish, but by energy that knows no defeat, by that indomitable spirit of push that lays the foundation of true prosperity and builds the structures of success and progress, right over the ruins of defeated projects and apparent failures. The man who

business at the old stand right in the midst of the burnt district and advertised his goods on a shingle the day after the fire, richly deserved that which he received—the applause of the world and a successful business, with which his former business bore no comparison. Everybody admires the courageous spirit that overcomes difficulties and manages to rise in the world. It is the invincible spirit of "get there" that people like.

HOW SUCCESS IS WON.

Success is a happy word for the average American. achieve success is the aim of every one. It would more frequently be gained were it not that it is too often wrongly understood to be innate smartness. Young man, the sooner you get rid of the notion that you are smart, the sooner will you win success. You may be a genius of exceeding brilliancy, but the chances are one to one hundred thousand that you are not. It is safer to conclude that you are just a plain ordinary mortal and then set about doing the best you can with the capital nature has given you. You may not soar so high at first, but then, when your balloon of youthful conceit collapses, you will not have so far to fall. Bear in mind that there are thousands who consider themselves exceptionally smart and through a dependence upon that smartness have made an utter failure of life, while on the other hand the apparently dull and stupid youth has by proper means overcome and is enjoying the prosperity that the supposed talented youth has dreamed of.

Success must be won if it is to be enjoyed. The person who waits for it to come along is like a man who waits for the train to arrive before he gets his ticket. To use an ordinary term, both are apt to "get left." Men ordinarily fail to succeed, not because they are naturally destined to fail, but they lack business ability, which is made up of equal parts of business knowledge, sterling integrity, strict economy and everlasting push.

In our day knowledge can be acquired and is in the reach of all who possess the other qualities. The other qualities ought to be in possession of every youth of sound mind. If not, nature can hardly be blamed for the deficiency.

Again, success is the child of confidence and perseverance.



YOUNG LINCOLN CUTTING WOOD FOR HIS MOTHER.

The line between failure and success is so fine that we scarcely know when we pass it, so fine that we are often on the line and do not know it. How many a man has thrown up his hands at a time when a little more effort, a little more patience, would have achieved success. As the tide goes clear out, so it comes clear in. Sometimes business prospects may seem darkest when really they are on the turn. A little more persistence, a little more effort, and what seemed hopeless failure may turn to glorious success. There is no failure except in no longer trying. There is no defeat except from within, no really insurmountable barrier save our own inherent weakness of purpose.

A firm resolution, that barriers shall be surmounted, that difficulties shall be cleared away, goes far toward achieving success. Let us repeat, success must be won. It never comes uninvited, never without effort.

A BUSINESS EDUCATION.

Know Thyself—Is an ancient maxim, but none the less worthy of consideration. Many of the failures of life result from a lack of knowledge of one's self and of adaptations in a business life. There are some farmers who would with credit fill one of the professions; while there are not a few of the professional men who would do themselves credit by seeking the farm, the workshop, or the laborer's task. One of the essentials in starting out in life is to be thoroughly fitted for the position occupied by a proper educational training. First of all the young man should diligently apply himself to an intelligent study of his own adaptations. To have parents or friends say that a young man shall be a lawyer, a doctor, a preacher, or a merchant, without consulting the inclinations and adaptations of the youth and then seek to train him to this end is sheer folly. Success or failure generally hinges on a proper choice of vocation.

Our Educational System.—At the summit of our excellent educational system stands the college and the university. We need not be ashamed of Yale, Harvard and Princeton that compare favorably in scholarship, thoroughness of instruction, and work done with the most honored universities of any land. Our public school and business colleges fit our youth for the practical side of life. Higher education is all very well, but the first and important thing in this practical world is for one to be able to make a good living. A business education fits any one all the better for his calling even though he enters one of the professions.

Practical Education Needed.—Horace Greeley said, many years ago, that he knew of 3,000 college graduates in New York alone that were not able to make a living. The craze to graduate and have a diploma is even greater today. Give these college graduates a thorough practical business education and there will be less of soaring after the infinite and diving after the unfathomable and more of seeking to acquire true success by merit alone.

Importance of Business Education.—A business education is essential to a substantial business career. Not a mere acquaintance with business facts but practical business training is what makes men able to direct successfully the details



THE LATE MARSHALL FIELD.

of large establishments, to control the movements of immense business concerns.

Your Duty.—Study the drift of your mind. Know the current in which your faculties drift the swiftest and the surest, and then lay to the helm, steer so straight a course that neither yourself nor any one else can be mistaken as to the direction or object of your efforts. (They say that there is a place out west where, when the boys wear their breeches threadbare, their mothers just turn them around instead of sewing on a patch, and the result is that when you see those boys out on the road you cannot tell whether they are going to school or coming home.) Young man, let the world know which way you are going.

Certain Prosperity.—Let a man in business be thoroughly fitted for the position he occupies, alert to every opportunity and embracing it to its fullest possibility and he is a success.

Lay a good foundation of business principles and practices. Do a legitimate business. Aim to have a home of your own early in life. Be strictly honest; work hard; be earnest; seek to be an intelligent citizen. Marry a good, healthy, loving girl, keep a clear conscience; fear God and work righteousness; and life's sun will set in tints of gold and splendor.

BUSINESS A PROFESSION.

The occupation of the merchant is now recognized as being as much a profession as that of medicine or theology. To master the intricacies of business and conduct it successfully requires as careful a preparation and training as for any of the professions.

Formerly the particularly bright sons of the family were encouraged by the fond parents to prepare for one of the professions, but those who were not so fortunate were to go into business, on the supposition that it did not require such a high order of ability to make a success. It is not so now. It requires the brightest minds and the strongest intellects to make a success in the fierce competition which rules in every department of business. In this connection the New York Commercial Bulletin says:

"The idea is prevalent that merchandizing is a thing that can be taken up when other vocations fail, and that it only needs a fair degree of push or smartness, or perhaps a genius for speculation which does not hesitate to accept any risk. It need not be said that nothing is further from the truth, and that those who are tempted to accept the delusion are morally certain, sooner or later, to repent of their folly. The mercantile life needs preparation or qualification quite as much as the other professions. We live in an age of extraordinary commercial activity. The world, practically, is today all one market, and the man or people who would handle that market to the best advantage must be well up in the particular kind of knowledge that is requisite to enable them to take advantage of the world-wide methods and to keep pace with their competitors. This cannot be acquired in an offhand, haphazard kind of a way, but by intelligent, painstaking study. Here, if anywhere, knowledge is power."

Hon. John Wanamaker thus expressed himself:

"Let me say to you that a young man who starts in such a field as this (commercial life) will stand but little chance of success without thorough and fruitful business training. The days of chance are gone. The mercantile profession must be studied as one studies law or medicine. There never were so many bids for young men. Banking institutions, business establishments and great importers are calling for young men, but they must be men who have studied, who have applied themselves, who have had training to do the work."

Chauncey M. Depew makes the following statement:

"In the olden time there was no intermediary which taught the young man or young woman the methods of business. Today the young man who graduates from a literary college and who enters business without going through a business school is enormously hampered in his progress in life."

POOR BOYS AND FAMOUS MEN.

1. Humble Birth no Barrier to Success.—In European countries much depends upon one's birth. Class and clan largely control the future, barring out the youth of humble birth from entering upon the avenues open to those through whose veins courses more royal blood.

In America, the land of liberties and opportunities, nature invites all alike to positions of greatness and honor. Here a larger proportion of boys of humble parentage rise to eminence and wealth than in any other country.

- 2. Noted Examples.—Franklin was the son of a tallow-chandler and soap boiler. Daniel Defoe, hostler and son of a butcher. Whitfield the son of an inn-keeper. Shakespeare was the son of a wood stapler. Milton was the son of a money scrivener. Robert Burns was a plowman in Ayrshire. Mohammed, called the prophet, a driver of asses. Madame Bernadotte was a washer-woman of Paris. Napoleon was of an obscure family of Corsica. John Jacob Astor once sold apples on the streets of New York. Catherine, Empress of Russia, was a camp-grisette. Elihu Burritt was a blacksmith. Abraham Lincoln was a rail splitter. Gen. Grant was a tanner.
- 3. George Peabody.—A long time ago, a little boy twelve years old, on his road to Vermont, stopped at a country tavern, and paid for his lodging and breakfast by sawing wood, instead of asking for it as a gift. Fifty years later, the same boy passed that same little inn as George Peabody, the banker, whose name is the synonym of magnificent charities—the honored of two hemispheres.
- 4. Cornelius Vanderbilt.—When Cornelius Vanderbilt was a young man, his mother gave him fifty dollars of her savings to buy a small sail boat, and he engaged in the business of transporting market-gardening from Staten Island to New

York City. When the wind was not favorable he would work his way over the shoals by pushing the boat along by poles, putting his own shoulder to the pole, and was very sure to get his freight in market in season. He accumulated over \$20,000,000 during his life.

- 5. Stephen Girard.—Stephen Girard left his native country at the age of ten or twelve years, as a cabin boy on a vessel. He came to New York in that capacity. His deportment was distinguished by such fidelity, industry and temperance that he won the attachment and confidence of his master, who generally bestowed on him the appellation of "My Stephen." When his master gave up business he promoted Girard to the command of a small vessel. Girard was a self-taught man, and the world was his school. It was a favorite theme with him, when he afterwards grew rich, to relate that he commenced life with a sixpence, and to insist that a man's best capital was his industry.
- 6. Marshall Field.—A clerk in a country store in Massachusetts at seventeen; then a foreman in a Chicago dry goods house at twenty-five, a partner in the firm at thirty; the head of the business at forty, and at fifty the owner and director general of a mercantile enterprise doing a business exceeding forty million dollars every year—this is the story of Marshall Field's successful career.
- 7. Barefooted Boys.—The barefooted boy of fifty years ago has been thinking and thinking aright, and thinking with no ordinary mind. He has placed the impression of his character upon the age. His industry, his business habits were developed in round, full and beautiful character. The barefoot boy of fifty years ago is today the prominent millionaire, the prominent business man, the prominent lawyer, the prominent statesman and the prominent philanthropist. It is a common saying that the men who are most successful in business are those who begin the world in their shirt-sleeves; whereas those who begin with fortunes generally lose them. Necessity is always the first stimulus to industry.

OPIMONS OF SUCCESSFUL MEN.

The following gleaned from a letter from Mr. Marshall Field to Dr. Hillis is worthy of every young man's careful perusal:—

"A young man should carefully consider what his natural bent or inclination is, be it business or profession. Then enter upon it with diligence and put into it an energy directed by strong common sense; seek to enhance his own and his employer's interests; choose good companions, and make honesty and devotion to duty his watchword. ECONOMY is one of the most essential elements of success. The average young man is too extravagant and wasteful. In order to acquire the dollars one must take care of the nickels. Begin to save early, be it ever so little. Success in small things is a necessary qualification of controlling a large business and income."

It is a mistake that capital alone is necessary to success, If a man has head and hands suited to his business, it will soon procure him capital.—John Freedley.

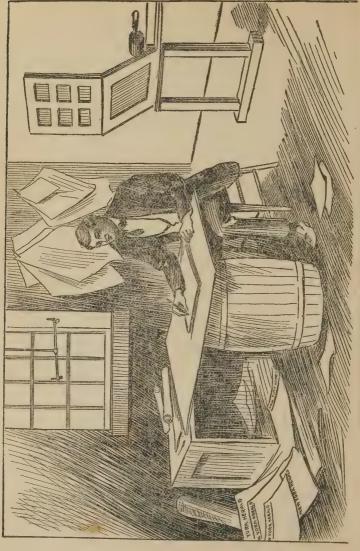
There is no boy in America, however humble his birth, who, in whatever capacity his lot may be cast, if he have a strong arm, a clear head, brave heart, and honest purpose, may not, by the light of our public schools and the feedom of our laws, rise until he stands foremost in the honor and confidence of the country.—Congressman Payson, Pontiac, Ill.

Punctuality is the mother of confidence. Be on time. Be frank. Say what you mean. Do what you say. So shall your friends know and take it for granted, that you mean to do what is just and right.—John Briggs.

He that has never known adversity is but half acquainted with others, or with himself, for constant success shows us but one side of the world.—Cotton.

What though you have found no treasure, nor has any rich relation left you a legacy. Diligence is the mother of good luck, and God gives all things to industry. Then plow deep while the sluggard sleeps, and you shall have corn to sell and to keep. Work while it is called today, for one today is worth two to-morrows.—Franklin.

Until men have learned industry, economy and self-control, they cannot be safely intrusted with wealth.—John Griggs.



SAFE PRINCIPLES AND RULES.

- Remember that time is gold. 1.
- True intelligence is always modest. 2.
- 3. Never covet what is not your own.
- 4. Don't cultivate a sense of over-smartness.
- 5. A man of honor respects his word as he does his note.
- Shun lawsuits, and never take money risks that you can 6. avoid.
- 7. Endeavor to be perfect in the calling in which you are engaged.
- 8. Keep your eyes on small expenses. Small leaks sink a great ship.
- 9. Keep your health good by adopting regular and steady habits.
- 10. Never forget a favor, for ingratitude is the basest trait of a man's mean character.
- 11. Remember that the rich are generally plain, while rogues dress well and talk smoothly.
- 12. Remember that steady, earnest effort alone leads to wealth and high position.
- 13. Never be afraid to say no. Every successful man must have the backbone to assert his rights.
- 14. Avoid the tricks of trade; be honest, and never misrepresent an article that you desire to sell.
- 15. The only safe rule is, never to allow a single year to pass by without laying up something for the future.
- 16. Remember that trickery, cheating and indolence are never found as attributes of a thrifty and progressive man.
- 17. Do not be ashamed of hard work. Work for the best salary or wages you can get, but work for anything rather than to be idle.
- 18. Be not ashamed to work, for it is one of the conditions of our existence. There is no criminal who does not owe his crime to some idle hour.
- 19. To industry and economy add self-reliance. Do not take too much advice, think for yourself. Independence will add vigor and inspiration to your labors.

GOOD BUSINESS MAXIMS.

- 1. Goods well bought are half sold.
- 2. Write a good, plain, legible hand.
- 3. Keep your word as good as a bank.
- 4. Goods in store are better than bad debts.
- 5. Never refuse a choice when you can get it.
- 6. Never take any chances on another man's game.
- 7. Never sign a paper without first reading it carefully.
- 8. Never gamble or take chances on the Board of Trade.
- Remember that an honest man is the noblest work of God
- 10. Your first ambition should be the acquisition of knowledge pertaining to your business.
- 11. Of two investments, choose that which will best promote your regular business.
- 12. By prosecuting a useful business energetically, humanity is benefited.
- 13. Keep accurate accounts, and know the exact condition of your affairs.
- 14. Be economical; a gain usually requires expense; what is saved is clear.
- 15. Endeavor to be perfect in the calling in which you are engaged.
- 16. Never fail to meet a business engagement, however irksome it may be at that moment.
- 17. Never sign a paper for a stranger. Think nothing insignificant which has a bearing upon your success.
- 18. Avoid litigation as much as possible, study for yourzelf the theory of commercial law, and be your own lawyer.
- 19. Undertake no business without mature reflection, and confine your capital closely to the business you have established.
- 20. Lead a regular life, avoid display, and choose your associates discreetly, and prefer the society of men of your own type.
- 21. Be affable, polite, and obliging to everybody; avoid discussions, anger, and pettishness; interfere with no disputes the creation of others.
- 22. Never mis-epresent, falsify, or deceive; have one rule of moral life, never swerve from it. whatever may be the acts or opinions of other men.

- 23. Make no investments without a full acquaintance with their nature and condition; and select such investments as have intrinsic value.
- 24. Never run down a neighbor's property or goods and praise up your own. It is a mark of low breeding, and will gain you nothing.
- 25. Above all things, acquire a good, correct epistolary style, for you are judged by the business world according to the character, expression, and style of your letters.
- 26. During business hours attend to nothing but business, but be prompt in responding to all communications, and never suffer a letter to remain without an answer.
- 27. Never form the habit of talking about your neighbors, or repeating things that you hear others say. You will avoid much unpleasantness, and sometimes serious difficulties.
- 28. Finally, examine carefully every detail of your business. Be prompt in everything. Take time to consider, and then decide positively. Dare to go forward. Bear troubles patiently. Be brave in the struggle of life. Maintain your integrity as a sacred thing. Never tell business lies. Make no useless acquaintances. Never appear something more than you are. Pay your debts promptly. Shun strong liquor. Employ your time well. Never be discouraged. Then work hard and you will succeed.

GENIUS, CAPITAL, SKILL, LABOR.

Here is a comparative table of genius, capital, skill and labor, on the mutual basis of the almighty dollar.

Genius.—The power that enabled Tennyson to take a piece of paper and make it worth sixty-five thousand dollars by writing a poem on it.

Capital.—The ability to write a few words on a sheet of paper and make it worth five million dollars, as a Vander-bilt can do.

Skill.—The ability to take twenty-five cents' worth of steel and make it into watch-springs worth fourteen thousand dollars, as a mechanic can do.

Labor.—The act of working ten hours a day and shoveling three or four tons of earth for \$1.50, as the ditcher does.

3 Standard.



F YOU WANT TO CATCH FISH, YOU MUST GO WHERE THEY ARE. THE BOY SEES THE POINT, DO YOU

BUSINESS FAILURES.

Actual Experience.—It is asserted that at least nine-tenths of those who engage in business pursuits either fail or go out of business after having lost more or less of their capital. The large number of failures is exceedingly discouraging to the young man who may have little or no capital with which to begin business, but when their failures are more closely examined, it is readily seen that they resulted either from a lack of experience or from a yielding to discouraging features, and to difficulties that with perseverance might have been surmounted. Nothing, neither theoretical knowledge nor adaption to the work, can be substituted for actual business experience.

Every young man should avail himself of every opportunity to prepare himself for his work, but let him not attempt to substitute this preparation for actual experience.

No Defeat.—Again, failure, by a determined effort, has ften been turned into brilliant and permanent success. It is said that the British have won in many decisive battles, after

their enemies believed themselves to be conquerors, simply because they would not acknowledge that they were beaten. Difficulties and apparent failures may become instructors or stepping stones to success, when determined effort will not vield to them.

It is often the case that more may be expected from a man who has failed, yet goes on in spite of his failure, than from the buoyant career of the successful. Many young men have distinguished themselves by brilliant speeches while in college, who were never heard from after leaving college. It may be gratifying but it is seldom beneficial to strike twelve the first time.

Examples.—Examples of success through failure are not wanting. Men are successful in spite of difficulties. It was in the face of many failures that Fulton applied himself to the task of designing a successful steamboat. Hiram Powers, the noted American sculptor, met failure and defeat in a dozen different pursuits before he became established in his chosen profession. Phillips Brooks failed utterly as a teacher in a Boston Latin School, but, undaunted by the predictions of friends and discouraging disappointments, he lived to present to the world one of the richest natures, and noblest preachers of the nineteenth century. Robert Bruce, discouraged and disheartened by repeated defeats, looked to the roof of his cabin and learned a lesson from a spider which after many unsuccessful efforts at last swung itself from one beam of the roof to the other. Stimulated by the success of the spider, Bruce was encouraged to make one more effort for his country, and, as he never before gained a victory, so he never afterward met with any great defeat. If the little ant does not succeed the sixty-ninth time in carrying its food to its home, it makes the seventieth effort. Do not be disheartened at every rebuff. There are few persons who succeed at once. We learn more wisdom from failures than from success.

Causes of Failures.—In answer to the question what causes the numerous failures in life of business and professional men, the following replies from leading men in our country ere suggestive and will be helpful to the wide-awake youth:

Alex. H. Stephens.-Want of punctuality, honesty, truth.

Pres. Bartlett.-Lack of principle, of fixed purpose, of perseverance.

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he became want of choosinghness of proparation. Want of fixedcase of proposed want of said in the thevitable triumph of right and touch.

and the comparation of the control o

there is the most of the beating the Divine laws of the body by vice, these is the most by everyonk and idleness, and those of the heart by making an blot of self.

the land spragge. Missakes in choice of employment and lack of consister, and produced affort. A low ideal, making success to consist in one so all again different, rather than in the training and lovelopment of a true and noble character.

The learnest and the combined spine of learness and self-conces. The makes a man unwilling to do anything unless he can choose page what he will do.

has shall brief the based to become such at the expense of character was a transformation of general shiftlessness; living beyond ones means counte speculation and gambling; want of proper together and mores, many apparent lack of progressiveness, or, in other words, dying of dry rot.

thesel Mark. Somer of the Chreago Tribune. - Liquor drinking, 40 to 15 medies speculation disheresty, tricky conduct, cheating, decrease all thing land work privates reading, failure to improve opposition. The

Conclusioning to swim with some discks, complained of the world is all right," replied the discks, "if you adress you sell to it. Keep in your element (the land), and not so a word a same action to us." Draw your own moral, if you please.

Faiture. a Premonition of Success.—Do not by any means ment or write fallare, but it it comes look upon it as indicative of success. We owe much of our happiness to our mistakes, and yet it is true that happiness is never found in failure.

S. Timbles Park when shown a dexterously manipulated experiment said. It thank God I was not made a dexterous name of the nost important of my discoveries have been suggested to me by a "ares." The very greatest things—great thoughts great discoveries and inventions have usually been name of in hards as suffering, and poverty, and have not become established before only tuber seemed to lay its icy hard men the verm's aching brow. But how often has appeared to lay in the been named into real success, through the unconquerable operage and will power of the determined spirit.

BUSINESS MANNERS.

Manners are the ornament of action.—Smiles.
Guard manners, if you would protect the morals.—Davidson,

A good name is the best thing in the world; either to get one a good name, or to supply the want of it.—Anonymous.

- 1. Be cheerful, and show proper civility to all with whom you transact business.
- 2. There are many who have failed in business because they never learned to respect the feelings or opinions of others.
- 3. Kindness of manners is the best capital to invest in a business, and will bear a higher rate of interest than any other investment.
- 4. Be accomplished, polite, refined, civil, affable, well-be-haved and well-mannered, and you will never lose by it.
- 5. Manners make the business man, and give him the art of entertaining and pleasing all with whom he has business relations
- 6. If you wish to change a man's views in reference to some business transaction or other negotiations, respect his opinions, and he will be respectful and listen to your arguments.
- 7. There are a thousard easy, engaging little ways, which we may put on in dealing with others, without running any risk of over-doing it.
- 8. An old saying, "politeness costs nothing, and accomplishes wonders," is a good one. Of course, politeness without sincerity is simply a refined form of hypocrisy, and sincerity without politeness is but little better. A savage, a barbarian can be honest, but is not likely to be very polite. So politeness of speech and manners is the distinguishing trait between the civilized and the uncivilized.
- 9. A coarseness and roughness of speech, a studied effort to say things that grate upon or wound the feelings of a person possessing ordinary refinement, is utterly, inexcusably and wholly indefensible.
- 10. There are many persons, however, who seem to have the idea that because they are honest, sincere and sympathetic, after a fashion, they are excusable for being impolite, and consequently justified in cultivating boorish manners, and indulging in rough speech; but this is a mistake. It pays to regard

the feelings of others, especially when it costs us nothing. It does not follow because a man is polite that he is therefore insincere. Politeness and sincerity can go together, and the man or woman who possesses both will get along much better than the individual who has either without the other.

BUSINESS QUALIFICATIONS.

If your highest ambition is to seek a name for yourself, you need no special qualifications. Thousands of your class have gone deservedly into everlasting desurtude. Aim higher than that, young man.

Many of life's failures are due to attempts of individuals to fill positions for which they lack the proper business qualifications. While the different lines of business require special skill in certain directions, there are other qualifications that are essential in all business pursuits. The choice of a career is by no means of the least importance. This being made there should be an ideal within you that will raise the character and excellence of your work. The qualifications most essential to success are a knowledge of every detail of your business, strict integrity, painstaking economy, and a push that holds high its motto, "This one thing I do," and "keeps everlastingly at it." The world admires the man who does best what multitudes do well. The era of easy money getting is rapidly passing. It is trained ability that makes the business man safe. It is blind recklessness to neglect to acquire, when opportunities present. a skill that may serve well in life's struggle. The world needs you and if you seek the proper qualifications, the world will hear from you.

Horace Mann's Advice.—Follow Horace Mann, the great educator's advice, "Be ashamed to die until you have won some victory for humanity." The stuff is in you to qualify yourself for more than a name, which is the highest ambition

of many youth. It is poor advice that makes every life a failure except that which has achieved a great name. The humblest manual laborer, equally with his brother man whose career abounds with the highest achievements of the intellect, whose name is honored among us, is a fellow worker with God.

To Make a Name.-We have taught our American boys that they were cut out for Congressmen instead of carpenters. for Presidents instead of painters and plumbers, for bankers instead of blacksmiths, for a career instead of a calling. These top-lofty notions have been imbibed by our youth until the highest ambition with many is to make a name for themselves. Not one of a thousand acquires a great name. Are the nine hundred and ninety-nine to be failures? Better learn to make a broom handle, a horseshoe, or a loaf of bread. The world needs these vastly more than it does names. This selfish un-Christian ambition for a name stands in the way of the selfdenial necessary to real usefulness. It is baneful folly that has kept so many of our American youth out of the humble but happy and useful lives of industry. Not every man is called to preach, but ever man is called to labor in some sphere. Find your place and then seek to qualify yourself for excellence in your work. Aim to stand at the head of your occupation.

TALENT, WILL, PURPOSE.

Talk not of talen's, is thy duty done?

Thou hast sufficient, were they ten or one.

-Montgomery.

Talent of Success.—Longfellow once said that the talent of success is nothing more than doing well what you can do, without a thought of fame. This idea of attempting to discover some hidden talent in one's self by which to become distinguished is fraught with much evil to the American youth. What men need most is not talent but purpose, not the power to achieve, but the will to labor through difficulties. Man's real power exhibits itself when enormous obstacles plant themselves right in his track. Success depends more upon ability adapted to work than upon any superior in electual power.



YOUNG PEABODY SAWING WOOD FOR A NIGHT'S LODGING. HE BECAME ONE OF THE FIRST MILLIONAIRES AND PHILANTHROPISTS OF AMERICA.

Circumstances Blamed.—The blaming of circumstances the shifting of responsibility, is as old as Adam. He blamed the woman. When Moses chided Aaron for making the golden calf, he blamed the people and the circumstances. "The people are set on mischief; we put in the gold and there came out this calf." Just as if he had no responsibility in the matter. Byron, endowed with brilliant talents, was a physical and moral wreck at thirty-five. "What else can we expect from such sursurroundings? Byron was the victim of circumstances," says his biographer. "Something drove me to it," says the criminal.

Heredity Accountable.—Then again, many charge their sins and failures upon heredity. True, the evil pleasures of one generation become the failures of the next. Napoleon, Byron, Goethe and McCauley demonstrate the laws of heredity. But these physical facts are but half the facts in the case. Man has a body, but he has also a soul. Something within him whispers that he is free. Self-consciousness declares him to be superior to circumstances and heredity. John Bunyan, the offspring

of vicious parentage, Jerry McCauley and Marcus Aurelius show clearly that hereditary tendencies can be conquered.

Barriers Broken.-Heredity may modify responsibility, but never destroy it. There is in man that which asserting itself. breaks through all barriers and rises into new realms. We are not waifs and strays with which the winds and currents sport; we are ocean steamers with power to defy the winds and waves, power to mark out our own course, power to determine for ourselves the distant harbor. Every day men fighting and conquering turn their passions into slaves that serve them; every day some tradesman prefers toil to ease, some teacher truth to falsehood, some business man chooses a little honest wealth rather than great treasures by lying methods. To every ambitious and aspiring youth the iron bars of heredity dissolve into smoke at the touch of the aspiring hand. Heredity is not a tyrant over man Charles Kingsley and Phillips Brooks conquered the stammering tongue and drilled it into eloquence. Huber, through his love of science, triumphed over blindness. Beethoven, despite his deafness, made splendid music. Africanus, a black chief, a cannibal at forty, a colossal lump of depravity. awakened by the teaching and example of Missionary Moffat, took on the aspect of a man; became the emancipator of his race: learned to read and write and speak; learned agriculture and husbandry, and taught farming to his savages; learned the use of the saw and hammer and taught his people to build houses and villages; made himself a scholar and founded schools and churches and Christian homes. At sixty this man stood forth under the aspect of a Christian hero, a veritable Moses for his race. These examples plainly show that birth-gifts are only raw material. The successful man is the architect of his own fortune.

Circumstances and Surroundings .- Neither is it indispensable that man shall be controlled by circumstances and enviconments. God means man to be the sole proprietor of gimself. It was never intended that he should not know what his occupations or beliefs or plans should be until circumstances came together and made up their decisions. A thousand times better be a slave for the meanest man than become the slave for dead circumstances. Uncle Tom's fetters shine like a king's

NOTHING CAN NEED A LIE.

coronet in comparison with the fetters that he must wear who bows to climate, food, and surroundings and asks the weather whether or not he may be happy. It is for a lump of putty to permit things to stamp it, now with this mark and now with that. He who holds circumstances as responsible for his failure or success has made himself a nonentity. When he wakes up in bed at night he can properly reflect, "There is nobody here."

Man a Victor.—As Sampson broke the green withes which bound him, so man by indomitable courage and will may break down the barriers of circumstances that would hinder him. Fred Douglass was born midst such squalor and poverty and wickedness as no tenement house has ever witnessed, and to all this was added slavery. But, unassisted, the black boy learned to read, shook off his slavery, conquered environments, and literally beat his iron fetters into sickles and pruning hooks. Octavio Hill, entering the tenement house district of Whitechapel in London, civilized the entire ward and transformed circumstances of misery and sin into those of happiness and refinement. David Livingstone proved that, instead of circumstances shaping the man, one heaven-endowed man can absolutely create a new social and spiritual climate for a whole continent.

Man is His Own King.—Do not wait for nor dream of talent not in your possession. Use the talent you have. God meant you to be a success. Hold your ground and push hard. Watch opportunities. Be rigidly honest. If you delight to sit around smoking cigarettes and telling shady stories on street corners and lounging counters, it is hardly necessary for you to attempt to learn "how to write a check," for the chances are a thousand to one that you will never have a bank account.

Have a purpose and with a will steer perseveringly in one direction. To the young man who does not succeed at once we would commend the following quaint lines:

"If you strike a thorn or rose,

Keep a-goin'!

If it hails or if it snows,

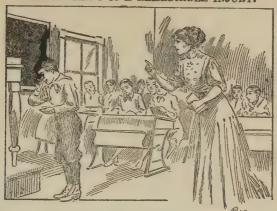
Keep a-goin'!

'Taint no use to sit and whine

When the fish ain't on your line;

Bait your hook an' keep on tryin'—

Keep a-goin'!"



"DID NOT KNOW HIS SPELLING LESSON."

SPELLING.

It is the fault of the English language that we have so many bad spellers. Beautiful penmanship should never be marred by bad spelling. Rather be a poor penman than a bad speller, but you need not be either. We may not be able to spell correctly the thousands of words in the English language, but it ought to be expected of us to spell correctly the few hundred words in general use. Careful reading will make a good speller. A writer who has at hand a reliable dictionary and makes it a rule never to write a word unless he is positive that it is spelled correctly will in a very short time be a good speller.

Thomas Jefferson in writing to his daughter Martha says, "Take care that you never spell a word wrong. Always before you spell a word, consider how it is spelled, and if you do not remember it, turn to a dictionary. It produces great praise to a lady (or gentleman) to spell well." Your success may depend upon your spelling. During the month of February, 1880, on the floor of the Senate chamber, Senator Gordon of Georgia objected to the confirmation of one of President Hayes' nominees for a marshalship in his State because the applicar had misspelled two words in the letter of application. The nomination was not confirmed. It is better to consult the dictionary for every word than to run the risk of misspelling a single word.

Close and careful reading and writing will always produce good spellers. Today when typewriters are of universal use only good spellers are wanted to fill positions. You may be able to use skillfully the best shorthand method, but if your typewritten copy is disfigured by bad spelling, your position will soon be occupied by another.

Rules for Spelling.

The following rules will aid students somewhat in their knowledge of Delling

Words of one syllable ending in I with a single vowel before it 1. Words of one syllable ending have ll at the close; as mill, sell.

2. Words of one syllable ending in 1 with a double vowel before it,

have only one I at the close; as mail, sail. 3. Words ending in I double that letter in the termination ly.

4. Words ending in e, adding ing, drop the e; as come, coming; divide, dividing.

5. Some words are spelled the same in both the singular and the

- plural; as deer, sheep.
 6. Verbs of one syllable, ending with a single consonant, preceded by a single vowel, and verbs of two or more syllables, ending in the same manner, and having the accent on the last syllable, double the final consonant whenever another syllable is added; as get, getting; omit,
- 7. The plural of nouns ending in y, when y is preceded by a consonant, is formed by changing y into i and adding es; as lily, lilies. When y final is preceded by a vowel the plural is formed by adding s; as valley, valleys.

 8. Nouns ending in o preceded by another vowel form their plurals

regularly by adding s to the singular; as cameo, cameos.

9. Words formed by prefixing one or more syllables to words ending in a double consonant retain both consonants; as, befall, rebuff. The exceptions are, withal, annul, distil, instil, fulfil, until.

THE USE OF CAPITALS.

- I. Every entire sentence should begin with a capital.
- 2. Proper names, and adjectives derived from these, should begin with a capital.
 - 3. All appellations of the Deity should begin with a capital.
 - 4. Official and honorary titles begin with a capital.
 - 5. Every line of poetry should begin with a capital.
- 6. Titles of books and the heads of their chapters and divisions are printed in capitals.
- 7. The pronoun, I, and the exclamation, O, are always capitals.
- 8. The days of the week, and the months of the year, begin with capitals.
 - o. Every quotation should begin with a capital letter.
 - 10. Names of religious denominations being with capitals.
- II. In preparing accounts, each item should begin with a capital.

PUNCTUATION.

Punctuation is a valuable art, easily acquired, yet too frequently neglected by a vast majority of letter-writers. Business men, as a class, seem to despise points as something beneath their notice. Others omit to punctuate through ignorance or carelessness. This is a great mistake, and many mistakes are made on account of this almost universal neglect to give more attention to punctuation.

Importance.—Punctuation is very closely connected with the construction of sentences; so closely that a clear expression in writing is almost an impossibility without it.

Many illustrations might be given to show the importance of punctuation. A young man, writing to a friend, says: "I was married last Sunday night for the first time in five years; the church was full." He intended to say: I was married last Sunday night; for the first time in five years the church was full.

Another:—"Woman, without her, man would be a savage." 'Woman, without her man, would be a savage."

The party consisted of Mr. Smith, a merchant, his son, a lawyer, Mr. Jones, a clergyman, his wife, a milliner, and a little child.

Here the party consists of nine persons. Change the punctuation and you have but five. The party consisted of Mr. Smith, a merchant; his son, a lawyer; Mr. Jones, a clergyman; his wife, a milliner; and a little child.

We give another, where both the spelling and the punctuation are defective. A clergyman one Sunday morning received a note from a parishioner, which, in the haste, he read as written, thus:

"Capt. John Smith having gone to see his wife, desires the prayers of the church for his safe return." The note should have been written: Capt. John Smith having gone to sea, his wife desires the prayers of the church for his safe return.

These examples strikingly illustrate the importance of punctuation. And while they are of a simple and ridiculous character in a social sense, in a business letter they might be of very grave importance.

General rule: Punctuate where the sense requires it.

The comma (,) is used to mark the smallest degree of separation, the semicolon (;) a greater degree, and the colon (:) the

greatest.

The Principal Uses of the Comma.—A comma is generally used before and after a parenthetical expression; after inverted expressions; after each pair of words or phrases, when they are used in pairs; to separate words or phrases that are contrasted with each other; to separate between words or phrases when used in a series, if the conjunction is omitted or used only between the last two; to set off intermediate expressions; to separate dependent and conditional clauses from the rest of the sentence; in the place of a verb that is omitted, and words that are understood; to set off nouns or phrases which are independent by direct address; to set off explanatory words and expressions, and expressions containing the case absolute; and before a short quotation, or an expression resembling a quotation.

The Semicolon.—The semicolon is used to separate the members of a compound sentence, if they are complex, or if they contain commas; to separate short sentences connected in meaning, anless they are very short and simple (in which case a comma is used); to separate clauses that have a common dependence upon another clause; also after the main clause if it comes at the beginning of a sentence; to separate an explanatory clause from a complete sentence, when no conjunction is used between them; before the word as, when it is used to introduce an example illustrating a rule (in which case, the as should be followed by a comma); and to separate explanatory terms from a general term, when the explanatory terms are simple and separated by commas.

The Colon.—The colon is used to separate the members of a compound sentence, if they are subdivided by semicolons; before a clause that is added to a complete sentence, if no connective word is used; to precede a formal quotation; to separate explanatory terms from a general term, when the explanatory terms are complex and separated by semicolons.

The Period (.).—A period is used at the close of a declarative sentence, after every abbreviation, and after Roman numerals.

Interrogation Point (?).—An interrogation point is used after every direct question, and it is sometimes inclosed in parentheses and used after a statement, to express doubt.

Exclamation Point (1).—The exclamation point is used after

an expression of strong emotion; after an exclamation; and to express doubt or sarcasm.

O and Oh!—O is employed to express a wish, and it does not take the exclamation point; Oh is an interjection expressing surprise, pain, grief, sorrow, or anxiety, and should be immediately followed by the exclamation point, unless the emotion continues throughout the sentence.

The Dash (—).—The dash is used to mark a sudden change in sentiment and construction; to mark rhetorical pauses and repetitions; to set off a parenthetical expression that has a close connection with the rest of the sentence; and to mark the omission of letters and figures.

Other Marks.-Parentheses () are used to enclose expressions having only a remote connection with the rest of the sentence; and in reports of speeches, to enclose the exclamations from the audience. Brackets [] are used to enclose words that are entirely independent; as, comments, queries, corrections. etc., inserted by some other person than the original writer or speaker. Quotation Marks ("") are used to enclose direct quotations. In the case of several quoted paragraphs, the marks are used at the beginning of each, but they follow only the last one. Single quotation marks are used to enclose a quotation that is included within another quotation. Quoted titles of books, essays, etc., are enclosed in quotation marks, or else printed in Italics. The Apostrophe (') is used to denote the omission of a letter or letters, and as the sign of the possessive case. The Hyphen (-) is used to separate the elements of a compound word and to divide a word into syllables. A word may be divided at the end of a line, but only between syllables. The Ellipsis (... or ****) marks an omission. Reference Marks (* † \$ | ¶) are used to call attention to notes of explanations.

The Possessive Sign.—To denote ownership, kindred, authorship, origin, fitness, time, weights, measure, etc., add the apostrophe (') to plural nouns that end in s, and to all other nouns, add the apostrophe and s ('s); and if the sound of the added s will not unite with the last sound of the word, give to it the sound iz. If several possessive nouns are connected by and, and refer to the same noun, the last only takes the possessive sign, otherwise each of the possessives takes the sign. Personal pronouns do not take the apostrophe and s.

COMMON FAULTS IN WRITING AND SPEAKING.

"I shall walk no further" should be "I shall walk no farther."
"I have no farther use for it" should be "I have no further use for it."

Farther refers to distance.

"Is that him?" should be "Is that he?"
"If I was him" should be "If I were he."
"Better than me" should be "Better than I."
"I am very dry" should be "I am very thirsty."
"Both of these men" should be "Both these men."
"He had laid down" should be "He had lain down."

"I have got the book" should be "I have the book."
"If I am not mistaken" should be "If I mistake not."

"It was her who called" should be "It was she who called."
"Jay down or set down" should be "Lie down or sit down."
"When I get off from a car" should be "When I get off a car."

"It spread all over the town" should be "It spread over all

the town."

"If I was him I would do it" should be "If I were he I would

do it."

"He is down in the basement" should be "He is in the basement"

"I know better; that ain't so" should be "Pardon me, I under-

stand differently."

"I see him every now and then" should be "I see him occasionally."

"I never play if I can help it" should be "I never play if I

can avoid it."

"Look out or you'll get hurt" should be "Be careful or you'll get hurt."

"His works are approved of by many" should be "His works

are approved by many."

"I went to New York, you know, and when I came back, you see, I commenced attending school," should be "I went to New York, and when I returned I commenced attending school."

"It is me" should be "It is I."

"We enter in" should be "We enter."

"I don't think so" should be "I think not."

"What are the news?" should be "What is the news?" "He fell on the floor" should be "He fell to the floor."

"He is in under the wall" should be "He is under the wall."
"Two spoonsful of tea" should be "Two spoonfuls of tea."
"A new pair of boots" should be "A pair of new boots."

"I had rather ride" should be "I would rather ride."

"I only want five dollars" should be "I want only five dollars."

"Continue on in this way" should be "Continue in this way."
"Who does this belong to?" should be "Whom does this

"I expected to have seen him" should be "I expected to see

him."

RESOLUTIONS.

Resolutions on the Departure of a Teacher.

Whereas, Miss Blanche Cooley is about to be removed from our midst and sever her connections with this school, in which she has so long and faithfully labored as teacher; therefore, be it

Resolved, That we deeply regret the necessity of losing her helpful and endearing presence, and most fervently wish for her a future of active usefulness in her chosen field of new associations and interests; ever remembering the good influence of her well ordered life, etc.

ROY WILLIAMSON. ELLENORE OTTERPOHL. MARY WOODS. WM. T. WILSON. MARTIN SNODGRASS. EDWIN McNETT. VIRGINIA MILLER. GEORGE R. RAMSBURG A. A. ALLEN

S. M. HEARN.

JULIA E. FOSS. ERNEST BEMIS. BERT ROBBINS. WALTER COLLYER. H. E. RENNELS. EMMA B. PADDLEFORD. EDWIN WISE. ERNEST CROWN. CORA PECKHAM. CARRIE BELDEN.

Resolutions Instructing Members of the Legislature.

Resolved. That we, citizens of the State of New Hampshire, are opposed to the present excessive rates and fares exacted by the Boston & Maine Railroad Company, and we hereby pledge ourselves to vote for no candidate for either house of the Legislature who is not pledged against this extortion of said Company:

Resolved. That the Secretary is instructed to furnish a report of this meeting, together with this resolution, to such papers as will bring the subject most generally before the people.

Resolutions of Thanks to the Officers of a Convention of Business Men, Farmers, Laborers, etc.

Resolved, That the thanks of this Convention are hereby given to the President, for the able, dignified, and impartial manner in which he has presided over its deliberations, and to the other officers for the satisfactory manner in which they have fulfilled the duties assigned them.

N. B. For Death Resolutions, see page 95.

PETITIONS.

For Opening a Street.

To the Mayor and Aldermen of the City of Portland, in Common Council Assembled:

Gentlemen:-The undersigned respectfully solicit your honorable body to open and extend Walnut street, which now terminates at Adams street, through blocks Nos. 10 and 12 to Benton street, thereby making Walnut a nearly straight and continuous street for two miles, and greatly accommodating the people in that portion of the city.

Portland, Me., Mar. 12, 1905.

E. E. MILLER. D. S. GRAY. FRED FOSTER. W. R. HOLLOWAY, etc.

To the Legislature of a State.

To the Honorable, the Senate and House of Representatives of the State of Vermont, in General Assembly met:

The petition of the subscribers, citizens of Poultney, in County of Rutland, respectfully showeth (stating the subject of the petition). And your petitioners will ever pray, etc.

> F. W. HAUSER, J. H. FLESSNER, etc.

To Congress of the United States.

To the Honorable, the Senate and House of Representatives of the United States in Congress assembled:

The petition of the subscribers, citizens of Granville, in the State of New York, respectfully showeth: (stating the subject of the petition). And your petitioners will ever pray, etc.

> O. B. DAVIS. W. B. AVERY. CHAS. HEARN. M. F. PARSLEY.

To the Executive of a State.

To his Excellency, George A. Foster, Governor of the Commonwealth of Massachusetts:

The petition of, etc. (as foregoing).

AN ITEMIZED BILL.

San Francisco, Cal., June 7, 1906.

H. W. NEHF,

To ABBIE D. MERRILL & CO., Dr.

1 11			1	1			
	To 5 yards Sil	k @	I 50	7	50		
	" 4 " Lin	ing @	20		80		
	" 10 " Dr	illing @	16	Z	60		
	" 3 doz. Bu	ttons @	20		60		
	" 6 yards Mu	ıslin @	08		48		
2000	" 5 Spools Ti	hread @	06		30		
	Paid					II	28
	Abbie D.	Merrill &	~ Co.				

AN UNRECEIPTED BILL.

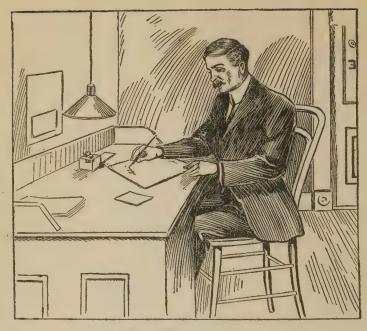
Plainfield, Conn., July 9, 1905.

MR. B. A. WHITE,

Terms

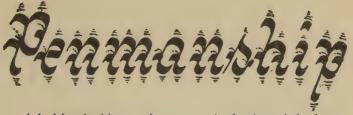
Bought of A. H. SIMPSON,

				1			
June	I	2 doz. Seamless Bags	31¢	7	44		
66	4	4 lbs. Brown Sugar	7¢		28		
**	16	6 " Rice	5¢		30		
						8	02



CORRECT POSITION AT THE DESK.

"If you can cultivate to perfection some att by which you can gain an independent livelihood, do it, whether there is a necessity for it or not; do it quietly if you will, but do it. There is no telling when or under what circumstances you may need it."— Horace Mann.



A bad handwriting ought never to be forgiven; it is shame-ful indolence—indeed, sending a badly written letter to a fellow-creature is as impudent an act as I know of.—Niebuhr.

The growth of the country, and the consequent increase in trade, commerce and all branches of business, the greater part of which is done through correspondence, requires thousands of good, rapid penmen, where one was formerly needed.

Good writing is a necessity in our day, and yet how few are to be found who write elegant and graceful hands, while with many great patience is required to decipher their writing.

Of the teachers of our country, ninety-nine per cent. are specially incompetent in the matter of writing. Many young men are standing on the street corners or hanging to their fathers' coat tails, waiting for something to turn up, who if they were good penmen might earn a respectable living. The onward march of civilization increasingly demands good writers.



GIVING ORAL ASSISTANCE TO HIS PEN.

RULES FOR POSITION AND PRACTICE.

I. Sit in an upright and easy position. It will add to the ease and beauty of your writing. Keep both feet on the floor.

2. Hold the pen firmly, but not so tightly as to cramp the

angers.

3. Place the hand on the paper so the top of the holder will always point over the right shoulder. This will cause the points of the pen to press equally on the paper.

4. Keep the wrist from touching the paper or desk, and keep the thumb from bending while writing. Avoid the finger move-

ment. It is not practical.

- 5. Let every downward stroke of the pen be drawn toward the center of the body, and the writing will have the correct slant.
- 6. Never practice carelessly. Always practice with a free and quick stroke. Let the movement be bold, free, offhand, resting the pen so lightly that the arm, hand and fingers can move freely together.
- 7. In making the shades, press on the pen with a gentle, springing movement. It will avoid heavy and irregular strokes.
- 8. Heavy shading, or shading every downward stroke, never adds beauty nor grace to the writing.
- 9. The thoughtful student in penmanship, as in other studies, will win. Think and write. Practice with perseverance, and your success will be certain.
- 10. To make the greatest improvement in the shortest time. practice upon the letters separately until you can make them all correctly.
- 11. Flourishes, too heavy shading, too large or too small letters, should be carefully avoided.
- 12. Practice writing by copying business letters, notes, drafts, receipts, etc., and you will improve your knowledge of business as well as your penmanship,



CORRECT POSITION OF THE PEN.

PRINCIPLES OF PENMANSHIP.

Elements and Principles.
Short-Letter Group.
WWW.MM. OW. OO
20 31, 10 10
Shaded Group.
Na, AV a
Third Principle, or "Loop Group."
It be last the first acres
VIVIV, J, J 14 14 14
Fourth Principle, or "Base Oval" Group.
WW WWW.
Fifth Principle, or "Top Oval" Group.
6000
Sixth Principle, or "Stem Oval" Group.
A A M OF OF ALL
OF OHO OF SHOW D
P APROL
The state of the s

PRACTICE MAKES PERFECT.

BUSINESS ALPHABET.

ABCOE abcdefghi FAAI) j klmnopq ALM NO s s t u v w a y z PDRSTU W 96 G 3

CAPITAL LETTERS.

BUSINESS ALPHABET

a a C D 1, F STA G mnogg SIUVI 42 jklmnopgrøsturwy y g Lastman Bus Colleges Goighkeepsie ny.

BUSINESS WRITING.

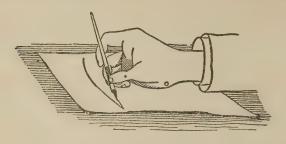
ASueben! year is a bridge of some you tread, and it methawa of the vast dim void of time nd you call the slep to Owonderful bridge of sand! ill bravelers all a throne Houns from the Junise Land Tolhe Calley of Cognsong. ad for somethe sands are gold. not for somether are sodden gray. Jaknone marther lothe Sunsise wherealm of yesterday

PROMISSORY NOTE.

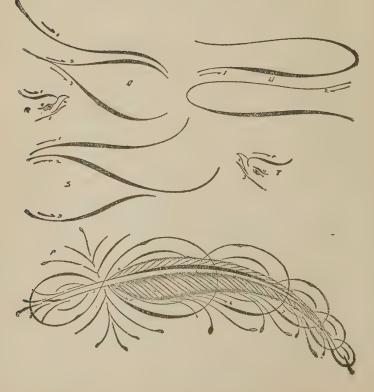
VERTICAL WRITING

nose low descending sun rothy action done." But they, while their companions rattained by sudden & to by great men reached and toiling who and in rom thy hand whithat day i

PRACTICAL LESSONS IN ORNAMENTAL PENMANSHIP.



HOW TO HOLD THE PEN FOR ORNAMENTAL WORK.



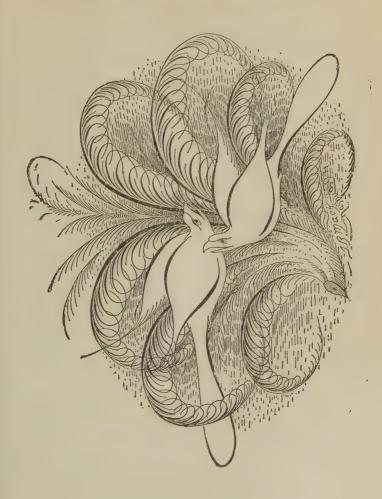
BETTER SOLITUDE THAN BASE ASSOCIATIONS,

EXERCISES IN ORNAMENTAL PENMANSHIP.





ORNAMENTAL PEN DRAWING.







N. B.—Pen-printing as an exercise adds greatly to Mil

ALPHABET FOR MARKING BOXES AND PACKAGES,

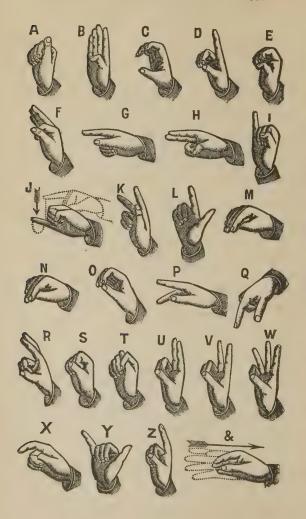


ABCDEFCHIKLMIC OPQRSTUUMXYZLL abcdefākijklmnoparstuvuxyz abcdefākijklmnoparstuvuxyz SellingCoods CardMarking At Cost ForPackages



GIVE A DEAF EAR TO SLANDER.

THE DEAF AND DUMB ALPHABET.



Shorthand Writing.

I would advise all parents to have their boys and girls taught shorthand writing and type writing. A shorthand writer who can type write his notes will be safer from poverty than a great Greek scholar.—Chas. Reade.

Shorthand is the general term applied to all styles of rapid writing as distinguished from the ordinary method. Many systems of abbreviating writing have been recommended from Socrates and Cicero down to the present day. In the year 380 the Latin poet Ansonius wrote: "Fly, young and famous reporter; prepare the tablets on which you express, with small dots, whole speeches as rapidly as others would trace one single word."

A few of the many names by which these systems were known are Brachygraphy, Tachygraphy, Lemigraphy, Criptography, Bodiography, Polography, Zeitography, Radiography, Tho-ography, and Stenography.

The importance of shorthand need not be argued today. It is used by the author in his study, the clergyman in his library, the editor in his "sanctum," the lawyer in his office, and by business men everywhere, until a modern education almost seems to class among the indispensables a knowledge of shorthand. That there is a great difference in the various systems is seen from the following writing of the Lord's prayer in two different systems. It can readily be seen which is the simpler system.

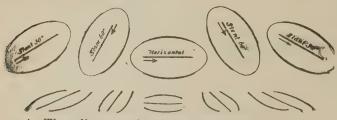
Since the use of shorthand is not confined to any particular science or profession, but is universal, and since any person of ordinary ability who is a good speller may succeed, this art yields remunerative employment to thousands.

By permission of the publishers we present the following pages from Eclectic Shorthand by J. G. Cross, M. A., and published by Scott, Forsman & Co., Chicago, Ill. This system is largely used throughout the country.

CHARACTERS AND THEIR COMBINATIONS.

LESSON I.

- 1. The alphabetic characters used in this system of shorthand are arcs and chords of the chirographic ellipse.
- 2. The Chirographic Ellipse is an ellipse ft m which are derived the lines of the longhand alphabet.
- 3. The following figures will serve to show the arcs and chords which are appropriated to the alphabet of this system of shorthand.



4. These lines stand in three directions, viz.:

HORIZONTAL. FORWARD-SLANT. BACK-SLANT.

5. Each line is used both long and short, thus doubling the number of lines.

LONG LINES.

1111=WIN

FI///) SHORT LINES.

- 6. Each line has three characteristics, viz.: form, direction, length.
- 7. There are no perpendicular characters, but some are more nearly perpendicular than others. The natural action of the hand in the forward movement draws upward lines at a greater slant than downward lines, and in the back slant characters those drawn by finger movement stand more nearly perpendicular than those drawn by ε gliding movement of the hand, as illustrated in the following longhand characters:

melalisted

8. The degree of slant of the forward oblique characters when written upwards is about thirty degrees from the horizontal, and when drawn downwards is about thirty degrees from the perpendicular. The slant of the backward oblique characters when drawn by the finger movement is about thirty degrees from the perpendicular, but when made by the hand and arm movement is about thirty degrees from the horizontal, as shown by the following diagrams:

51/

9. This law of movement, adopted from longhand, is peculiar to this system of shorthand, and is important; the motions employed being so similar to those used in longhand, to which, by long practice, we have become accustomed.

THE ALPHABET.

SMALL LETTERS.

•		i		q	/	У 🔪
•				_	- 1	
ъ	<u> </u>	j	9	r	0	z
c		k	/-	s	<u> </u>	sh o
d	_	1	0	t	1—	ch o
е		m		u		wh ~
ľ		n	-	V	_	th _
8	v	0	/	w	/	ng
h	0	p	7	×	\	nj
			CAPITAL	LETT	ERS.	·
A		1	~	Q	1	Y
3	<u> </u>	J	ع	R	-	$z \sim$
C		K	-	S	_	Sh o
D	•	L	0	T	1	Ch 3
E	(M	-	σ	~	Wh &
F	-	N		V		Th -
G	v	0		W		
H	0	P	0	x	-	
Copyright, 1890, by S. C. Griggs & Company						

Correspondence.

Letter Writing is the conveying of thoughts through the written page. To be able to write a good letter is a qualification much to be coveted. To depend upon forms will never give that grace and ease that characterizes an appreciated letter. Letter writers are good only in that they give general instructions on the subject. A letter that has no soul or heart in it, but is stiff and formal, is not likely to make a good impression upon the recipient.

Experts.—We may not all become expert penmen, but all can acquire a good legible handwriting and with care can write neat, interesting, and intelligent letters.

Index of Character.—We judge a man by his looks, man ners, and words. A letter gives us his words and an illustration of his manners in many ways.

Many a youth has been accepted or rejected because of the manner of his letter. Men judge us by the letters we write. Neatness, order, and the readiness to express one's thoughts or the lack of these qualities, are all photographed on the written page. The character of a man is often determined by the manner and matter of his letters. As the tasty arrangement of dishes adds to the pleasure of the repast, so a neat and well formed letter, with ideas clearly and agreeably expressed, makes a lasting impression upon the mind.

Kinds of Letters.—Letters may be classified as letters of business, letters of courtesy, and letters of friendship. Letters of business include all correspondence relating to business matters; letters of courtesy include invitations and acceptances, letters of introduction and of recommendation, letters of application and of advice, letters of congratulation and of condolence; friendship letters should always be simple and natural. The little things, the incidents of everyday life, the happy relating of the experiences of commonplace and routine occurrences, are what make friendship letters interesting.

Parts of a Letter.—The parts of a letter are the Heading, the Address, the Salutation, the Body of the letter, the Complimentary close and the Signature.



HOW TO BEGIN A LETTER.

The Heading consists of place and date. In a city the number and street, city and state should be given.

Arrangement.—The first line on ruled paper is generally about an inch and a half below the top of the page. A letter should never begin much higher than that; but if the letter should be very short, it may begin still lower, so that the spaces above and below the letter would be about equal.

Punctuation.—Always punctuate the parts of the heading as shown in the models.

The Address consists of the name, title and residence (Post Office) of the persons written to. Except in business letters the address is frequently written at the close of a letter.

* Salutation is that term of politeness and respect with which we begin a letter; such as Sir, Dear Sir, Dear Friend, etc. In writing to a firm Sirs or Gentlemen should be used. Never use the abbreviations of "Gents" for Gentlemen or "Dr." for Dear or "Sr." for Sir.

In writing to a stranger, he is addressed as "Sir," or "Dear Sir." 'My dear Sir" implies very friendly relation. A married lady or a single lady not young, is addressed as "Madam," or "Dear Madam," a young unmarried lady as "Miss," or "Dear Miss," with her last name affixed, and begin your letter without any further introduction. "Rev. Sir," for clergymen; "Esteemed Sir," for formal friends; Judges and legislative officers should be addressed by the title of "Honorable."

Models For Beginning Letters.

Form 1.

Wichita, Hans., Jan 12, 1901.

Messis. Hall & West,

58 Main St.,

Austin, Minn.

Gentlemen . Your favor of 3rd inst.

at hand, etc.

Form 2.

Naperville, Du Page Co., Olls., Nov. 35, 1901

Mr. F. J. Nichols.

Ottawa, Olls.

My dear Sir: Please send by return mail, etc.

Form 3.

229 Madison St., Chicago, Sept. 12, 1901,

Mrs. Maggie Smith,

Dear Madam:

Accept thanks for the kinn

ness you have shown me, etc.

Form 4. (Social Form.)

North. Western College,

Naperville, Olinois,

Sept. 20, 1902

Dear Friend:

Your welcome letter arrived to-day, it

Form 5.

Cedar Falls, Jorva,

Monday, Sept. 36, 1901

Miss Nellie Reynolds,

Scotland,

Cann.

We acknowledge with pleasure the sa

soipt, etc.



HOW TO IMPROVE YOUR PENMANSHIP IN LETTER WRITING.

1. Never be satisfied with mere legibility; for neatness, elegance and correctness are equally important.

2. Remember, carelessness and too much haste not only fail to improve your penmanship, but actually ruin what progress is already attained.

3. Many persons write letters so hurriedly as to slur over the words, half forming and deforming many of the letters, or making sort of a wavy line to represent a word; this is not only an injury to the writer, but vexatious, unsatisfactory and disrespectful to the reader.

4. Write plainly and neatly as possible, rapidly if you can, slow'? if you must. A neat and well worded letter of one page once a month, is better than a slovenly scrawl of four pages once a week.

5. When persons contemplate having a photograph taken, they often bestow much care upon their personal appearance,

to order to heighten the effect of the artist in the presentation of their physical likeness. These same persons, however, will often sit down and write hurriedly an important letter, that from undue haste abounds in blots, illegible writing, erasures, bad spelling, and the wrong use of capital letters; without once thinking they are transmitting to their correspondent a kind of mental photograph of themselves, drawn by their own hand, and one, too, which better indicates their fitness for business or for society than the others.

THE BODY OF THE LETTER.

As letter writing is "speaking with the pen," the language should not be strained but natural and free from all such stereotyped phrases as

"I take my pen in hand to let you know that I am well, and hope you are enjoying the same blessing."

Originality is the spice of a letter. Do not try to imitate some one else in writing but be yourself; write as you would talk. Do not be afraid to write of little things. Things that are worth talking about are worth writing about. Let your language be pure and chaste and beautiful, always avoiding vulgar and slang expressions. Bear in mind that it is possible to put your letter into print. After writing, think how your letter would read in five years. Has anything been written that might cause the blush of shame.

Letters of friendship and love should reveal the happy mood and cheerful spirit of the writer and should carry hope and happiness to the recipient. A well written letter may gain to you a life-long bosom friend. A careless and foolish letter may forever separate those who might have been dearer to each other than ordinary friends.

THE SUPERSCRIPTION.

The superscription is what is written on the outside of the envelope. In writing the superscription commence the name a little to the left of the center of the envelope, the town or post-office on the line beneath and exampling a little to the right of the name. The State next below and still further to the right. In cities the door number and the name of the

street should come on the second line. In the country, the county may be on the same line with the state on the left side of the envelope.

Great care should be exercised in addressing envelopes Thirty thousand misdirected letters reach the dead letter office at Washington daily. Give the full name and title of the person addressed. If abbreviations of States are used, there should be especial care, for N. Y. may easily be taken for N. J.; Pa. for Va.; Me. for Mo. and Cal. for Col. Above all let your penmanship be clear and distinct so that it can be easily read by the postal employes.

Messrs. Wicks & Nichols, No. 17 Monroe Street, Chicago, Ills.

His Excellency,

Governor Win. Mc Kinley,

Columbus,

HOW TO CLOSE A LETTER.

Never write a letter without signing it, and write your name in full if the letter contains important matter.

Write your name plainly. Bad signatures often cause great inconvenience, and many times result in very serious mistakes.

A lady writing to a stranger should sign her name with his proper title, Miss or Mrs.

The complimentary close is written on the next line pelow the closing sentence, and the signature is written on the next

line below the complimentary close.

The closing words of respect, friendship, etc., should be, Yours truly, Yours respectfully, Yours very sincerely, Respectfully yours, Yours ever, Your affectionate brother, Your loving daughter, Your obedient servant, etc., etc. A great variety is used.

Models for Closing.

Yours truly.

M. M. Matter.

Yours very truly,
Miss Miriam Knies.

I remain,
Yours respectfully,
J. C. Zehnder.

Sincerely yours,
Mrs. A. S. Barnard.

FORMS WITH ADDRESS

Please address, B. F. Simon, West Salem, Ohio.

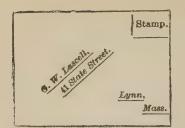
I am, Yours truly, B. M. Worthington. To C. N. Smith, Berlin, Ont.

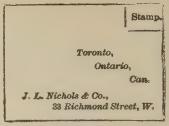
We remain, dear Sir, Your obedient Servant, C. W. Field.

COMMERCIAL CORRESPONDENCE.

Many business houses in writing to their customers always send return envelopes, and in order to assist the mail clerk on the cars, and thut facilitate rapid transit of their mail, both outgoing and return, divide the address as shown in the following forms:

6 Standard.





It will readily be seen that an address naturally divides itself into two distinct parts concerning two postmasters remote from each other. For example: We mail a letter to G. W. Lascell; the hustling clerks on the mail cars do not care to see anything but Lynn, Mass., and the postal clerks there do not care where the letter was mailed, they are only concerned about its delivery.

The above are valuable only for business houses who have their envelopes printed and properly ruled; we would not recommend them for private correspondence.

forms of Superscription in Private Correspondence.

Stamp.

Stamp.

To the President,
Executive-Department,
Springfield,
Ills.

To the President,
Executive Mansion,
Washington,
D. C.

Stamp.

Miss Ida Best,
99 Ashland Boul.,
Chicago,
Oare John Smith, Esq. Ills.

Letter sent by a private party.

Mrs. A. G. Hall, No. 4 Fifth Ave., Canton,

By Politeness of Mr. J. G. Ash. Ohio.

TITLES USED IN THE UNITED STATES.

Titles, their use and abuse, might serve as a topic for many pages. The omission of titles of respect and courtesy, professional and official, shows a lack of refinement and gentility. In private correspondence writers should not assume titles. "Let others praise thee, not thine own lips." If, however, it is necessary to inform the person to whom you write, if he is a stranger, then do it with becoming modesty. The young man who starts out attaching Rev., Hon. or Prof. to his name every time that he writes it, is to be pitied for his ignorance. Some writers, when it is desired that the recipient shall understand the office or rank of the writer, inclose the title in parenthesis, thus: (Rev.) Thomas Moore (see page 100).

When it is desired to express the title of the husband, on a letter or note of invitation to the husband and wife, one of the following forms may be used:

His Excellency and Mrs. Grover Cleveland.

Hon. and Mrs. G. M. Wilson.

Rev. and Mrs. W. P. Phillips.

Professor and Mrs. R. A. Gault.

If the lady's husband alone has a title, she is simply addressed as Mrs. Chas. Morton.

HOW TO WRITE A POSTAL CARD.

- 1. A card should be dated either on the upper right-hand corner, or on the lower left-hand corner.
 - 2. The writer's full name should be signed to it.
- 3. If an answer is required, the writer's full post-office address should be given, unless it is well known by the person to whom the card is directed.
- 4. Important matters should not be intrusted to a postal card, as it is open to inspection, and as the law does not provide for its return to the writer in case of failure to reach its destination. Nor is it allowable to use postal cards for notes of invitation, etc., in which society prescribes certain polite forms to be observed.
- 5. Never write a demand or request for money on a postal card. It is disrespectful to the person receiving it.
 - Postal cards can be sent to Canada and Mexico.

Business Letters

The essential qualities of a business letter are clearness, neat ness and brevity. The writing should be so plain that "he who runs may read." Through a neglect to observe these points serious misunderstandings and mistakes have occurred, often nvolving great loss to parties concerned. A wealthy gentleman in New York desiring to have two monkeys, wrote his agent in Africa: "Send me too (two) monkeys." The t was not crossed, and the agent was astonished to learn that his principal asked for 100 monkeys. As he was in no way connected with a menagerie the agent was perplexed to know why so large a number of monkeys was desired. After considerable effort he shipped twenty-five monkeys stating that it was impossible to fill the whole order at one time. The New York gentleman was just as much surprised to receive such a large invoice of monkeys at so great an expense and for which he had no use. The fault was his own.

Clearness in expressing the thought or in ordering goods should always be aimed at. The amount, kind, color, quality, shape, size and terms should all be explicitly stated by the order.

Flourishing of penmanship or language is out of place in a business letter.

Prompt replies should characterize all business letters. Neglect in this respect will soon bring a business man into discredit.

Copies of important letters sent and filing of letters received for future reference is essential and often prevents litigation and loss.

Ordering a Bill for Goods.

Messrs. L. E. Fiant & Co., 414 State Street, Chicago. Adrian, Mich., Jan. 25, 1901.

Gentlemen:—Please ship me at your earliest comvenience, by freight, per C., B. & Q. R. R., the following:

34 brls. Mess Pork, 20 brls. Coffee Sugar, 7 chests Japan Tea, 16 bags Rio Coffee, 3 mats Cinnamon.

Hoping to receive the above order of goods in good condition and with unnecessary delay, I am, Yours truly,

A. C. BROWN.

BUSINESS IS THE SALT OF LIFE.

Order to a Store for Goods.

At Home, Jan. 11.

MR. GEO. H. REMKE:

Please deliver to the bearer for me:

22 ibs. Dried Apples,
5 ibs. Best Rice,
\$1.00 worth of A Coffee Sugar,
1 bar Rising Sun Stove Polish.
Charge the same to my account, and greatly oblige,

MRS. J. G. FARMER.

From a Young Man Commencing Business, to a Wholesale House with Order.

Aurora, Ill., Jan. 4., 1901.

Messrs. WILLIARD, HATCH & CO.,

105 State Street, Chicago.

Dear Sirs:-Having recently commenced business for myself, with

Dear Sirs:—Having recently commenced business for myself, with fair prospects of success, I shall be pleased to open an account with your house, and trust it will be to our mutual advantage. Should you think favorably of the matter, you will please fill the accompanying order with the least possible delay and on your best terms.

For testimonials, I refer you to J. R. Cramer & Co., of your city, by whom I have been, until lately, employed; but as this is my first transaction with your house, upon forwarding me an invoice of goods and deducting your usual discount for cash, I will remit a sight draft on the First National Bank of your city, for the amount, by return mail. Expecting prompt attention, I am,

Yours respectfully, GEO. VOLK.

Sending Draft.

Messrs. S. A. MAXWELL & CO.,

Naperville, Ill., Jan. 15, 1902.

134-136 Wabash Ave.,

Chicago, Ill.

Gentlemen:—Inclosed please find draft on Willard Scott & Co., Bankers, No. 12945, for \$89.77, in payment of Bill for Stationery, dated Jan. 4, 1902.

Please acknowledge receipt, and oblige, Yours respectfully J. H. RILLING.

Sending Receipt.

Naperville, Ill., Dec. 1, 1902.

Mr. ISRAEL GROSS,
Marion, Marion Co., Kas.
Dear Sir:—Your favor of Nov. 29, 1901. just received. Inclosed pleame find receipt. With thanks for your prompt remittance,
I am very respectfully yours,
G. S. MEDLER.

A Resignation.

TO THE DIRECTORS OF THE JOLIET LOAN ASSOCIATION,

Gentlemen:-I herewith tender my resignation as secretary of your association, for reasons not altogether unknown to you. Same to take effect on the 15th day of April next.

Respectfully yours, March 10, 1901.

J. L. STROHM.

Advising Receipt of Invoice.

Mr. JAMES L. KING,

Louisville, Ky., Jan. 14, 1901,

Boston. Dear Sir:-Your favor of January 9th, with Invoice, was received in due time. The goods are all that we desired; and for your promptness

and care in filling our order, accept our thanks.

Enclosed find in payment Walker & Bross, Draft on First National Bank of Boston, at sight, for \$1950.25. Please acknowledge receipt per return mail, and oblige, Yours respectfully. A. S. HUDSON & CO.

Acknowledging Remittance.

New York, Jan. 16, 1901.

Received from Messrs. W. D. Wolf & Co., Five Hundred and Fifty 100 Dollars on account. W. H. DAY.

550.25-100.

Asking a Loan.

Reading, Pa., Jan. 12, 1901.

Dear Sir:—Y write to ask you a rather disagreeable favor. A disappointment in the receipt of some money due has exposed me to a temporary embarrassment. Would you under these annoying circumstances accommodate me with a loan of Twenty Dollars until pay-day, when I shall be able to return it without fail?

It vexes me much to ask a friend such a thinger of the state of the sta

It vexes me much to ask a friend such a thing, but you will, I hope, cuse it on the part of Yours, most truly,

excuse it on the part of

F. D. VINCENT.

To Mr. William Williamson, Mendota, Ill.

Notice of Non-Payment.

To Messrs. WILLIAMS & FETTERS,

Chico, Cal.

Gentlemen:—You will please to take notice that a note for \$200, signed by John H. Wagner, dated May 29, 1900, due February 6th, 1901, and indorsed by you, was duly presented by me, the holder, to the maker for payment and was not paid, and that I shall look to you for payment thereof. Respectfully,

E. B. KNAPP.

Apologizing for Failure to Pay Money Promptly.

Memphis, Jan. 14, 1901.

Mr. J. K. WEST, Aurora, Ill.

Dear Sir:-I must really beg of you to defer the settlement of your account till after the middle of next month, when I shall be in a condition to meet your demand. Regretting that circumstances prevent my being more prompt in attending to your wishes.

I remain, Sir,

Yours very truly.

A. M. WINTERS.

Requesting Payment.

Mesers. DOUGLAS & HEARTH. Naperville, Ill., Jan. 7, 1901.

St. Louis, Mo.

St. Louis, Mo.

Dear Sirs:—We are obliged again to ask you for the balance of your account, now four months past due. We are much inconvenienced by your delay, and have waited longer than we think ought to be expected. The account must be speedily settled, and, if we do not hear from you by the 15th inst., will draw on you, at five days' sight. If the draft is not protected at maturity, we shall be compelled to adopt some other mode of sattlement.

Yours triby other mode of settlement. Yours truly,

A. F. LEONARD.

Requesting Payment.

Mr. M. B. FOSTER. Yankton, Buffalo, Dec. 24, 1901.

Dear Sir:-If convenient, please let us have the amount of your bill. March 15th, for \$225.50. We desire to close all our accounts by the 30th inst., and have need of all the funds due us. Please remit without delay, and much oblige. Yours respectfully.

T. L. HENDERSON & CO.

Requesting the Payment of a Sum of Money.

M. M. SCHREPFER, Esq., Naperville, Ill., Jan. 8, 1901. Howell, Mich.

Dear Sir:-Although the balance of the account between us has been of long standing in my favor, yet I would not have applied to you at present, had not a very unexpected demand been made upon me for a considerable sum, which without your assistance, it will not be in my power to answer. When I have an opportunity of seeing you, I shall then inform you of the nature of this demand, and the necessity of my discharging it.

I hope you will excuse me this freedom, which nothing but a regard to my credit and family could oblige me to take. If it does not suit

you to remit the whole, part will be thankfully received by Your obedient servant, A. M. T. A. M. TISDALE.

Requesting the Payment of Rent.

Mr. D. P. COYL, Peoria, Ill., Oct. 16, 1902.

Troy, N. Y.

Dear Sir:—I have waited patiently for your convenience in the payment of the rent for the house you are at present occupying. As, however, you have now been my tenant for four months without meeting any of the payments, which were to be made monthly, I feel obliged to remind you of the fact that there are now \$80 due me.

Trusting that you will give this subject your immediate attention, I am Yours truly, GEO. M. LANNING.

Letter Complaining of Error in a Bill.

Abbott, Iowa, Aug. 19, 1901. Messra. HOLMES & MILLER. Chicago, Ill.

Dear Sirs:-We call your attention to an error of bill of Aug. 4, by which we are charged \$45.50 more than the invoice actually amounts to. Please correct the same and oblige,

Yours very truly, MONROE & HIGGINS.

Answer to Above.

Messrs. MONROE & HIGGINS, Chicago, Ill., Aug. 12, 1901.

Abbott, Iowa. Gentlemen:-We regret that an error was made in bill of Aug. 4. We enclose the corrected bill to you and offer apologies for the error. Truly yours,

HOLMES & MILLER.

Enclosing Note for Discount.

Annapolis, Jan. 14, 1901.

CHAS. W. WARD, Esq., Cashier. Dear Sir:-We offer for discount, enclosed, L. Brown's note, Dec. 20th, at ninety days, for \$4,250.75. By discounting the same you will greatly Yours respectfully.

oblige,

L. L. ORTH.

Letter of Credit.

Messrs. STEINER & LEFFLER, Naperville, III., Feb. 4, 1902.

New York.

Dear Sirs:—Please allow Mr. J. A. West a credit for such goods as

he may select to an amount not exceeding Eight Hundred Dollars (\$800.00), for four months. I will become responsible for the payment of the same should Mr. West fail to meet the obligation promptly.

Please inform me of the amount for which you give credit, and is default of payment notify me promptly.

Very truly yours,

(Mr. West's signature, G. E. ALTSTADT J. A. West.)

LETTERS OF APPLICATION.

Business men find it profitable at times to advertise for employes. Letters in reply to advertisements should be written at once or it may be too late. Your application should of course be in your own handwriting. From the letter the employer can frequently judge whether the applicant has the necessary qualifications. In replying name the paper in which you saw the advertisement, or better still, paste it at the head of your letter. If you have testimonials, send copies of them, marking them "copy." The original can be used in an interview or held for future use. Do not speak in praise of yourself. You may state your reference, your experience, and your intention of endeavoring to perform the duties required, but let your testimonials state your character and qualifications. In answer to advertisements in the daily paper, business men sometimes receive hundreds of letters. This suggests the importance of the greatest care in the wording as well as the general appearance of the letter. Your letter must represent your abilities and make a favorable impression upon the employer or some one else will fill the place.

Application for a School.

JAMES HOSMER, Esq., Secretary of School Board, Yorkville, Ill.

Peru, Ill., Jan. 16, 1902.

Dear Sir:-Having learned that there is a vacancy in your school, I beg leave to offer myself as a candidate for the position. I have had four years' experience in teaching and enclose testimonials. I hold a certificate of examination from the Superintendents of Kendall and Ogle counties. Should you see fit to engage my services, I should endeavor to fill the position to the best of my ability and, I trust, to your entire satisfaction.

Should a personal interview be desired, I shall be glad to present myself at such time and place as may be most convenient to yourself.

Yours respectfully.

GEO. C. MONROE.

Application for an Increase of Salary.

Chicago, Ill., Jan. 18, 1902.

Messrs. COOK & CO.

Dear Sirs:—Without wishing to trespass upon your time, permit me to ask your consideration of a subject which to me is very important, but which may have escaped your notice in the pressing demands upon your time—namely, that of an increase of my salary. I have been with you nearly two years, so that you are well able to judge of my ability to do the work required of me. I trust my efforts have met with your approval and, therefore, that you will regard this matter as liberally as possible. Yours respectfully,

C. B. BROWN.

From a Boy Applying for a Clerkship.

Chicago, Ill., Jan. 4, 1901. Messrs. A. S. KOCH. 187 Madison St.

118 Madison Street, Chicago.

Dear Sir:—I notice in this morning's "Clarion" your advertisement of a boy wanted in a grain commission house; for which position I take the first opportunity to apply. I am fourteen years old, have been at school the most of the time, winters, for the past seven years, and understand bookkeeping and conducting correspondence pretty well, having assisted my father much of the time while he was in the coal trade, which was about three years.

I am perfectly willing and ready to take off my coat and go right to work at handling grain or anything else in your line.

I refer you to Mr. George Beldon, Coal Dealer, at 65 State Street, Chicago, who has always known me.

Very respectfully, yours, GEORGE ARNOLD.

Advertisement.

Wanted-A young man of ability to fill the position of entry-clerk A a dry goods house. One who has had some experience in dry goods business preferred.

Address with reference, X. L. M., Box 1024, P. O.

Reply.

St. Louis, Jan. 13, 1902.

Mr. X. L. M. Sir:—Consider me an applicant for the position advertised in to-day's Tribune. Am twenty-two years of age, have not handled dry goods, but am thoroughly conversant with the technical terms, abbreviations, and calculations pertaining to the business, having completed a commercial course at North-Western Business College, Naperville, Ill., the professors of which I am at liberty to use as parties of reference.

Respectfully, E. B. HARDY.

Application for a Situation as Book-keeper.

Messrs. K. K. LANGTON & CO., Cincinnati, Ohio. San Jose, Cal., Feb. 20, 1906.

Gentlemen:—Having learned from Prof. George Sindlinger that you desire the services of a book-keeper, I respectfully offer myself as an applicant for the situation. I have been engaged for two years in the wholesale house of Geo. Reuss & Co., as clerk and assistant book-keeper, and have a good knowledge of accounts. My business acquaintance is extensive in the western part of Kentucky, and I could therefore influence considerable trade. I enclose copy of testimonial from my late employers, and would also respectfully refer you, as to my character and ability, to

S. A. WELTY, Banker, Creston, Ia.

Prof. A. C. GEGENHEIMER, Naperville, Ill.

Any communication which you may be pleased to make, addressed

33 above, will receive prompt attention. Very respectfully yours. F. T. GEIST.

Recommendation Enclosed in the Above Copy.

San Jose, Jan. 16, 1900.

The bearer, F. T. Geist, has been in our employ as assistant book-keeper for over two years, and we have always found him to be honest, steady, and correct in his habits and deportment, and well qualified for any position of trust in a counting-house. We cheerfully recommend him as a competent book-keeper and one who will earnestly apply himself to promote the interests of his employers.

Respectfully, L. H. WERNER & CO.



HOW TO WRITE NOTES OF INVITATION.

- 1. Notes of invitation differ from ordinary letters in the following ways: 1. More formal; 2. Wholly or partly written in the third person; 3. Date is generally written at the bottom; 4. They are without signature.
- 2. Materials.—The paper and envelopes used should be of the finest quality.
- 3. A dinner invitation should be answered immediately, others (if answered at all) not later than the third day.
- 4. Regrets.—It is more friendly and courteous to state a reason for non-attendance, than to decline without any assigned cause.

After having accepted an invitation, never absent yourself without the strongest reasons.

Birth-Day Celebration.

Mr. and Mrs. H. A. Matthews request the honor of J. A. Austin's company to celebrate their son's majority, on Wednesday evening, June tenth, 1901.

1402 Arch St.

R. S. V.P.

To Meet Visiting Friends.

Mr. and Mrs. C. W. George request the pleasure of W. N. Towner's company, on Friday evening, November 19th, from eight of eleven o'clock, to meet W. A. Womer.

Broad and Walnut Sts., Philadelphia.

Invitation to a Surprise Party.

Dear Grace: We are getting up a surprise party for Lucy; jobs as and be at Mr. Brown's by 7 p.m., Wednesday evening.

Clara Power.

Evening Parties.

Notes of invitation for evening parties are issued in the name of the lady of the house, as,

"Mrs. John Bell requests the pleasure of Mr. and Mrs. Francis Granger's company on Monday evening, March 16th, from nine to twelve o'clock."

Care must be taken never to separate the Mr. and Mrs. from the name, and the name itself must be written on one line.

Acceptance.

The reply, if an acceptance, may be as follows:

"Mr. and Mrs. Francis Granger have much pleasure in accepting Mrs. John Bell's kind invitation for Monday evening, the 16th inst."

Regrets.

Or, if a regret,

"Mr. and Mrs. Francis Granger regret that a previous engagement to dine with Mrs. Smith deprives them of the pleasure of accepting Mrs. John Bell's kind invitation for Monday evening, March 16th."

The above is a courteous form of sending regrets.

The following are not courteous:

"Mr. and Mrs. Howard Smith regret that they cannot accept Mrs. John Bell's invitation for Friday evening."

A still ruder form:

"Mr. and Mrs. Howard Smith decline Mrs. John Bell's invitation for Friday evening."

Dinner Invitations.

Dinner invitations are written or engraved in the name of the husband and wife as follows:

"Mr. and Mrs. Howard Smith request the pleasure of Mr. and Mrs. Willard Scott's company at dinner, on Tuesday, the 8th of June, at seven o'clock."

If accepted, the answer is as follows:

"Mr. and Mrs. Willard Scott accept with pleasure Mr. and Mrs. Howard Smith's kind invitation to dine with them on Tuesday, the 8th inst., at seven o'clock."

If a regret, the following is the form that is most frequently used:

"Mr. and Mrs. Willard Scott are not able to accept the kind invitation of Mr. and Mrs. Smith owing to the death of a near relative."



Mr. Walter Mood presents his regards to Miss Jennie Mason. and requests the pleasure of eses xorting her to the Grand Operar to-morrow evening. 246 Monroe Ave, April 10,

Miss Jennie Mason presents ther compliments to Mr. Stood, and accepts with pleasures his kind invitation to as pany him to the Opera. april 11th



If the parties are very intimate friends, the formal and ceremonious style may be dropped, and that of a familiar letter adopted, as in the following:—

Saturday Morning, May 10.

Dear Fanny,

We are going to Irving's Cliff this afternoon for wild flowers. Will you obline us by making one of our little party. If so, we will call for you at two o'clock. Do go.

Yours affectionately,

Sillia

Please answer by bearer.

My dear Sir,

If you can come next Sunday, we shall be equally glad to see you, but do not trust to any of Martin's appointments in future. Leg of lamb us before, at half-past four, and the seart of Lamb forever.

Yours truly,

C. Land

30th March. 1897.

How to Write a Letter of Introduction.

Naperville, Ills., Jan. 7, 1901.

Dear Sir: This will introduce to you my friend, F. D. Vincent, of this city. He intends staying a few days in your sity, which he visits on business, and I take the liberty of recommending him to your kind attention.

He is a gentleman of excellent acquirements, and I know with to be responsible to the extent of his engagements. Any ask-function or favor that you render him will be considered a personal baser, which I shall be happy to reciprocate.

Very sincerely yours,

Jas. F. Kalk.

For Jared L. Morton Esq.

Letter of Introduction.

SHORT FORM.

Dear Friend:—I have the pleasure of introducing to your acquair tange.

Mr. A. A. Jenkins, whom I commend to your kind attention.

Very respectfully yours.

To Rev. J. Miller.
Naperville, Ill.

W. H. BAKER.

Letter of Apology.

Atlanta, Ga., May 10, 1901.

Mr. A. H. Brown,

Dear Sir:—I regret very much that I am compelled to apologize too not meeting you at the Leland Hotel last evening as I had expected and agreed to do. The cause of detention was the sudden and severe illness of my son George, whose life for a time we despaired of. I hope that the arrangements we anticipated can yet be perfected, and shall be pleased to have you kindly inform me when it will be convenient for the to see you.

Very respectfully yours,

E. M. MERRILL.

LETTERS OF RECOMMENDATION.



Recommendations are given for the purpose of promoting the benefit, interest, or happiness of another and should be given only when the integrity and uprightness of the individual are known. In a certain sense the individual giving the recommendation is responsible for the character and ability of the person recommended. Great care should be exercised in writing and giving recommendations. It may be hard to refuse a testimonial, but in some cases it may be unjust to give it.

Recommendation to a Young Man.

Joliet, Ill., Feb. 4, 1902.

To Whom It May Concern:-

This is to certify that the bearer, Mr. S. G. Auer, has long been known to me, and that he is a young man of good family, steady habits, and honest and conscientious in the performance of every duty.

He sustains an excellent reputation among his associates and neighbors. He is highly respected by all, and is possessed of a good education. I take pleasure in recommending him to any who may desire the

services of an active, competent, and trustworthy young man.

E. M. KECK.

Recommending a Salesman.

Warren, Oct. 7, 1902.

To Whom It May Concern:—The bearer of this, Mr. J. M. Horton, has been in our employ for three years past as salesman and book-keeper, and we have ever found him diligent and faithful in the discharge of his duties, and one who endeavored to make his employers' interest his own. He is correct and reliable in his accounts, and is well qualified to act as book-keeper or correspondent.

We cheerfully recommend him to accounts.

of a trustworthy and competent person as accountant.

Very respectfully, MARSHALL FIELD & CO.

Recommendation for a Farm Laborer.

Sycamore, Ill., Nov. 1, 1901.

To Whom It May Concern:-

This certifies that the bearer, Jno. Jones, has worked for me during the last season upon my farm, and that I have found him steady, reliable, strong and a good workman. I recommend him to any one who wishes help that understands farming, as one who is able and willing THOS. HALL arn good wages.

Asking for a Letter of Recommendation.

Lemont Illinous

April 10, 1001

Will Mr. Hughs be so good as to favor me with a line, dating in what manner and win what success I discharged my duties while serving as a teacher in the school in which he is di rector? Such a testimonial, if as favorable as I have reason to expect, may be of great benefit to me in procuring a desirable situation as teacher.

Hoping that Mr. Hughs will favor me with a reply Lulu Brown son as convenient, I remain his friend. To Larry Hughs, Esq.

Business Recommendation.

Winterset, Iowa, May 10, 1901.

To Whom It May Concern:

Having for many years enjoyed the acquaintance and observed the course and conduct of Mr. Dudley Selden, and being also acquainted with his financial circumstances, I do herewith most cheerfully and unhesitatingly express my entire confidence in his integrity as a true Christian gentleman and a trustworthy, reliable business man, bearing a good reputation for honesty and business integrity where best known.

I can conscientiously recommend him as a safe man in any line of business for which he is qualified, being confident that he will not business himself beyond his chillists have

obligate himself beyond his ability to pay.

ALVIN H. BROWN. Cashier First National Bank.

kecommending a Teacher.

Peoria, Ill., Feb. 16, 1901.

W. G. Brewer, Esq.:

Dear Sir:—It gives me pleasure to recommend Miss Lora Minch to the position of teacher of your school. I have known Miss Minch as student and teacher. I most cheerfully bear record to her untiring zeal and close application as a student. As a teacher she has tact, enthusiasm and patience. Her amiable disposition has won to her the hearts of her pupils. She is withal a strict disciplinarian. The two years spent with us have exhibited a marked improvement in our school in every respect. Very truly yours,

IDA HOFFMAN. Chairman of School Board.

Declining to Recommend.

W. G. Brown, eaq.

Sir:—I regrat that I cannot conscientiously write the testimonial you request of me. I should most gladly do so, if I were not compelled to believe that it would be enjust and an injury to both of us.

I am atill your sincere well-wisher.

A. E. JAHN.

LETTERS OF CONGRATULATION.

37. A Letter of Congratulation is a letter written to a friend who has met with some special good fortune or great joy. It should be written in a style suited to the occasion, lively, cheerful and free from all envy or prejudice.

While an abundance of good-natured merriment is permissible, overpraise or exaggeration may create doubt in your friend's mind as to your sincerity. Do not insert any other matter or news in a congratulatory letter.

Congratulating a Friend on Obtaining a Position.

Dear Friend George:—Permit me to congratulate you upon your success in obtaining a good and desirable position. Hoping that it may prove profitable to you and be a stepping stone to even greater prosperity, I am, Yours truly,

CENTIUS SELDEN.

Letter of Congratulation Upon Marriage.

Naperville, Ill., Jan. 27, 1901.

My Dear Friend James:
Allow me to congratulate you on your marriage, of which is have just heard With all my heart I wish you a long, happy and prosperous life with your helpmeet. May you share with each other

many joys and few sorrows.

As ever your friend,
JOHN D. BREWER.
Batavia.Iil.

Congratulating a Friend Upon the Birth of a Son.

Peoria, III., Jan. 3, 1901.

Dear George:—Accept my warmest congratulations upon the birth of your son. May he always be the source of happiness and comfort to his parents that he now is, and be the pride and help of your old age, My kindest regards to Mrs. Jackson. I remain,

Faithfully your friend, H. H. HARDY.

Congratulating a Lady upon her Approaching Marriage.

Dixon, Ill., Feb. 16, 1901.

Dear Anna:—Two beautiful cards on my table advise me of your approaching nuptials. Allow me to congratulate you upon the choice of such a noble man to whom you are to entrust your life's happiness. That the noon and evening of your married life may be as cloudless and beautiful as the morning, is the earnest wish of the state of the state

Your loving friend, LUCY SPANGLER.

Congratulating a Friend on Recovering Health.

Dear Friend George:—Permit me to offer my heartfelt congratulations on your convalescence from the severe attack of fever. I trust you are again in usual health and hope to see you soon in your usual hopeful and cheerful spirit.

Yery truly yours,

H. A. HAGEMEIER.

I Standard.

LETTERS OF SYMPATHY AND CONDOLENCE.

38. A Letter of Condolence is a letter written to some friend who has suffered some grievous loss or bereavement. It should be consoling, comforting and full of sympathy.

Avoid calling up the harrowing details of the sad event, and do not attempt to argue the sufferer out of his (or her) sorrow. The letter should be short, but earnest and sincere. Such letters often afford inexpressible comfort in the hour of affliction.

Letter of Condolence.

Reese, Mich., Jan. 7, 1901,

Bear Friend Clayton:

With feelings of deepest sorrow I have learned of your recent heavy loss. You have my sincere sympathy in this your affliction. With hope that you may speedily retrieve your loss, I am. as ever,

To C. H. Wolf. Naperville, Ill. R. R. BARNARD

A Letter of Condolence on a Child's Death.

Houston, Texas, Jan. 11, 1901.

My Dear Friend:—If anything could have caused me especial pain, it was the news of your sad bereavement. How I remember your dear child! Lovely, lively, intelligent, and affectionate, ever displaying a thoughtfulness beyond her years, and to lose such a promising child truly brings a deep and heavy shadow; but remember that light some time will break through, and there will be a glad and happy reunion in the great beyond.

It has, indeed, been a heavy blow, and I scarcely know how to talk of consolation under so bitter an affliction. But think of One who careth for us all and who loves little children. He has prepared a bright and beautiful home beyond the grave, and the spirit of the dear child will only wait a brief period when in sweetness and love she will meet her mother and father to depart no more.

I can say no more; human consolation is weak. May God bless you

n your hour of sorrow, is the wish of Your loving friend,

MARTHA COLE.

To Mrs. Henry Craver.

Lafayette to Jefferson, Announcing the Death of Madame de Lafayette.

Antenii, Jan. 11, 1901.

My Dear Friend:—The constant mourning of your heart will be deepened by the grief I am doomed to impart to you. Who better than you can sympathize for the loss of a beloved wife? The angel who for thirty-four years has blessed my life was to you an affectionate, grateful friend. Pity me, my dear Jefferson, and believe me forever with all my heart,

LETTERS OF FRIENDSHIP.

Friendship letters should be written more frequently. Especially should the young cultivate the art of keeping up an interesting correspondence with friends. Many a friend has been lost through neglect in correspondence. An interesting and lively correspondence will rivet the ties all the closer. You must be governed by circumstances, but an entering into the details of everyday life is often desirable and will interest your friend. Do not be foolish, but be explicit about the happenings of the neighborhood, especially if your friend is acquainted with persons mentioned. If the father were to write more frequently to the son, the son to the father, the husband to the wife, the wife to the husband, the mother to the daughter and the daughter to the mother, home ties would be strengthened and many of our youth would be saved from many evils and in some cases from ruin. Keep home ties closely riveted by frequent correspondence. The same is true with our friends. We may hold our friends, be a blessing to them and they to us by frequent correspondence. At the same time you will be acquiring the art of easy letter writing.

A Student at School.

North-Western College, Oct. 2, 1901. My Dear Parents:-It will doubtless give you much pleasure to learn My Dear Parents:—It will doubtless give you much pleasure to learn that owing to the kind attention of my teachers I have made so satisfactory progress that I have not only been promoted one class higher in the school, but have carried off the first prize in penmanship.

I sincerely hope that I may keep up to all the expectations you have formed of me, and which you have spared no pains or expense to realize. With feelings of regret at leaving my kind teachers and school-mates, and delight at the prospect of my return home, I remain, my dearest parents, with kindest love to all at home,

Your affectionate child.

Your affectionate child, ELMER BROWN.

A Letter to a Lady Friend.

Miss NELLIE REYNOLDS, Scotland, Conn. Vicksburg, Miss., Jan. 23, 1901,

Dear Friend:—It no doubt will be a great surprise to you to receive a letter from a distant friend who has been silent so long. I will venture to try to experiment, hoping you will recover from the shock in season to make an early reply.

How has the world prospered you all these long years since we last met? I hope you are in the full enjoyment of the blessings of good health and find many interesting and profitable enterprises to engage your time

and attention.

and attention.

Where and how are all the good people who used to be our neighbors? Scattered, no doubt, some to distant States, and some to the silent abodes of the village burial ground. And thus, Nellie, does time make its mark, and it writes upon all living the sad, sad words, Passing away.

But I said I would be brief. Please write to me, and tell me all the terms of interest. With many kind thoughts, I remain, as every Truly your friend,

J. O. EVERETT.

John Quincy Adams, when Seven Years Old, to His Father.

Braintree, Mass., Oct. 13, 1744.

Bir:

I have been trying ever since you went away to write a letter. I shall make poor work of it; but, sit, mamma says you will accept my endeavoir, and that my duty to you may be expressed in poor writing as well as good. I hope I grow a better boy, and that you will have no occasion to be ashamed of me when you return. Mr. Thaxter says I learn my books well. He is a very good master. I read my books to mamma. We all love to see you. I am, sir, your dutiful son, John Quincy Adams.

Dr. Franklin to His Wife.

"Easton, Nov. 13, 1756.

"My Dear Child:
"I wrote you a few days since, by a special messenger from you by his return, and to have the northern newspapers and English letters per the packet; but he is just now returned without a scrap for poor us; so I had a good mind not to write to you by this opportunity, but I never can be ill-natured enough, even when there is the most ocout I hever can be in-natured enough, even when there is the most occasion. The messenger says he left the letters at your house, and saw you afterwards at Mr. Duche's and told you when he would go, and that he iedged at Honey's, next door to you, and yet you did not write; so let Goody Smith give me more judgment, and say what should be done to you. I think I won't tell you that we are all well, nor that we expect to return about the middle of the week, nor will I send you a word of news-that's poz.

"My duty to mother, love to children, and to Miss Betsy and Gracy, etc., etc.

"I am your loving husband, B. FRANKLIN.

"P. S. I have scratched out the loving words, being written in haste by mistake, when I forgot I was angry,'



"IN THE MIDST OF LIFE THERE IS DEATH."

HOW TO WRITE RESOLUTIONS.

- 1. Resolutions of societies, clubs, or any organization on the death of a member should always be deliberate, concise and consistent.
- 2. Great care should be taken that they are not too brief nor too long, and be careful to avoid excessive exaggerations.
- 3. Resolutions in form are always prefaced with a preamble which should specify the occasion of what shall follow. The preamble should begin with "whereas," and each resolution should begin with "recolved" or "be it resolved." '
- 4. When resolutions have been framed by a committee, all their signatures should be annexed to the resolutions.

Form of Resolutions.

Whereas, The great and supreme Ruler of the universe has ._ his infinite wisdom removed from among us one of our worthy and esteemed fellow-laborers, Henry A. Harlow; and, whereas, the long and inti-mate relation held with him in the faithful discharge of his duties in this society makes it eminently befitting that we record our appreciation of him; therefore,
Resolved, That the wisdom and ability which he has exercised in the

aid of our organization by service, contributions, and counsel, will be

held in grateful remembrance;

Resolved, That the sudden removal of such a life from among our midst leaves a vacancy and a shadow that will be deeply realized by all the members and friends of this organization, and will prove a serious loss to the community and the public.

Resolved. That with deep sympathy with the bereaved relatives of the deceased we express our hope that even so great a loss to us all may be

overruled for good by Him who doeth all things well;

Resolved, That a copy of these resolutions be spread upon the records of this organization, a copy printed in the local paper and a copy forwarded to the bereaved family.

Resolutions of Thanks.

Resolved, That the thanks of this convention are hereby given to the president for the able and impartial manner in which he has presided over the deliberations of this body, and to the other officers for the faithful performance of duties fulfilled in so satisfactory a manner.

VISITING AND ADDRESS CARDS.

Uses.—A few of the many uses of cards are, to announce a visitor's name, to make known one's name to a stranger, to serve as credentials or certificates of authority when an indorsement is written upon it.

Kinds.—The business card is valuable for advertising, making known the leading features of the business. The visiting card is used principally by ladies in calling upon acquaintances in the city. The address card is also frequently used for the same purpose. Professional cards are used by professional men. The same card is often used for social purposes.

Cards are of various sizes to suit individual tastes. Ladies' cards are a trifle larger than gentlemen's. The most elegant cards are engraved or written. They should always be in script.

A man and his wife sometimes use a joint card, written Mr. and Mrs. C. J. Lock, but more frequently each have a separate card, the gentleman's card being smaller and delicately engraved in script. Cards should not be "overloaded" with printed matter,

We append a few models, which although diminished in size will give the general form.

George C. Monroe.	Edith Monroe.
Mrs. George C. Monroe.	Mrs. Geo. C. Monroe, 18 Adams St.
Miss Edith Monroe, 26 Monroe St. øst and 3rd Thursday,	Mrs. Geo. C. Monror, Naperville, Ills.

HELPFUL HINTS TO CORRESPONDENTS.

Abbreviations.—Use abbreviations very sparingly. Be especially careful in using the abbreviations of states. Avoid abbreviations such as "&" for "and," "xRoads" for "Cross Roads," "Balt." for "Baltimore," "Phil." for "Philadelphia," "C'wood" for "Collingwood," "Wmstown" for "Williamstown," "Jno'town" for "Johntown," "ad." for "adv." or "advertisement," etc.

Address.—Write your name and address plainly and in full. N. Y. may look like N. J.

Anonymous Letters.—No gentleman or lady ever writes an anonymous letter.

Application.—Letters of application should be very carefully written in the applicant's own handwriting, modest but self-respectful.

Brevity.—In business letters use as few words as possible.

Business Letters.—Business letters often partake of the ature of contracts, hence they should be clear, brief, direct and without ambiguous terms. Ambiguous language often results in serious loss.

Captain.—When this title is used instead of "Sir" in the salutation or complimentary close, it should not be abbreviated. The same rule applies to "Colonel" and other titles.

Copying Letters.—Copy important business letters and preserve them. A facsimile made with a letter press is a most satisfactory means of preserving a copy of a letter.

Corporations.—A petition or memorial to a Board of Aldermen, or other officers, may begin with "Gentlemen" and close with "All of which is respectfully submitted."

Dear Sir.—This salutation is more intimate than "Sir" and not so officious. It is preferable to "Sir" for ordinary business correspondence.

Degrees.—Scholastic degrees—M. D., D. D., M. A., A. B., etc.—are always abbreviated in addresses. Titular addresses of high rank, however—such as President, Governor, Archbishop, etc.—should never be abbreviated in such use. It is not in good taste to address a man as "Mr. Charles King, M. A.," or "Charles King, Esq., M. D." Titles are multiplied on title-pages and catalogues, but not more than one should appear on letters.

Don't.—Don't write illegibly. Don't write crooked. L'on't use any other than black ink. Don't write a letter on foolscap paper. Don't use fancy note paper. Don't grumble on paper. Don't flourish in a business letter. Don't use slang. Don't direct an envelope wrong side up. Don't write "&" for "and." Don't write a letter with a lead pencil. Don't write like Horace Greeley. Don't write "Gents" instead of "Gentlemen." Don't be profuse in apologies.

Envelopes.—In social correspondence, the envelopes, like the paper, should be white and plain, and should correspond to the paper used in size and quality. The square envelope is not used for business correspondence. It is considered bad taste to use colored paper.

Erasures.—Avoid erasures or blots, even if you have to rewrite your letter.

Esquire.—The correct abbreviation is "Esq.," not "Esqr." In addresses this word is accepted as the correct title of a gentleman who has no professional title.

Figures.—Do not use figures in the body of a letter, except in writing dates and sums of money.

Folding.—Fold the letter neatly from the bottom forward and fit it to the size of the envelope. A clumsily folded letter denotes either ignorance or a want of proper respect to the person addressed.

~ Friendship.—Matters of friendship or private confidence should not be mentioned in business letters.

Hostess.—Be sure to write a friend, or hostess, after making a visit at her house, thanking her for her hospitality. Do not wait several weeks before doing so.

Introduction.—Letters of introduction should be left unsealed and the name of the person introduced should be written on the lower left-hand corner of the envelope, in order that the persons, on meeting, may greet each other without embarrassment.

Margin.—Always leave a margin of a half-inch or more at the left of the page. The margin should correspond to the size of the paper.

Mistakes.—Read your letter carefully when written, and see that you have made no omissions and no mistakes. Examine carefully your envelope when addressed. Millions of letters reach the dead letter office every year because of mistakes in addressing them. In writing a number of letters be careful to enclose them in the proper envelopes. Woeful mistakes have been made this way. Don't make mistakes,

Miss.—This word, unlike Sir, Madam, and General, should never be used alone, hence cannot be used as the salutation of a letter. In addressing a young lady, use the word with the surname, as "Miss Brown." In writing to strangers a woman should in her signature, indicate her sex and also whether she is a "Miss or a "Mrs."

Money.—In sending money, the amount should always be mentioned. Acknowledge the receipt of money promptly.

Nota Bene.—The abbreviation is N. B. and the meaning "note specially." This, like the postscript, follows the completed letter.

Numbers.—Numbers, except dates and sums of money, should be spelled in full, unless exceeding three words in length.

Officials.—In letters to ordinary officials, it is customary to begin with the salutation "Sir," and close with "I have the honor to be, sir, your obedient servant," or "I beg to remain your obedient servant."

Official Letters.—In official correspondence it is better to address the office than the officer, as "To the Minister of Agriculture, etc., Sir," instead of "To the Hon. A—— B——, Minister of Agriculture, etc."

Paper.—Gentlemen should use white paper, ladies may use delicately tinted and perfumed paper. Unruled paper is to be preferred.

Paragraphs.—Letters as well as other compositions should be divided into paragraphs, and a blank margin should always be left on the left-hand side of the page, and not on the right.

Payment.—When it becomes necessary to request payment, it should be done in the most gentlemanly terms. There is more loss than gain in rash and insulting language.

Poor Writing.—It is almost useless for a poor writer to apply for a situation in a business house, for merchants do not wish either the discredit or the inconvenience of bad writing.

Postal Cards.—There is no need of salutation or complimentary close. The economy that resorts to cards need not waste time and two lines on mere civilities.

Postscript.—The abbreviation P. S. is usually made use of. The ordinary use of the postscript is to add some afterthought to the letter. Use sparingly.

Promptness.—Business letters should be promptly answered.

Recommendation.—"It ought to be the pride of every max who writes a letter of recommendation to feel that his letter will have weight, because it is known that he recommends only the deserving and the competent, and recommends truthfully."

Return Stamp.—In writing to others for information a stamp should always be enclosed.

R. S. V. P.—French meaning, "answer if you please." Sometimes written at the lower left hand corner of the invitations.

Sir.—This is used alone while Mr. goes with the name. The plural is "Gentlemen," not the vulgar contraction "Gents."

Social Matters.—Never discuss or refer to social matters in a business letter. If necessary write two letters.

Style.—Let the style be simple, clear and withal forcible. In a letter the spirit of the writer should show itself.

Testimonials.—When these are required, and you desire to preserve the original, a copy should be enclosed, and marked "copy" at the top of the page.

Titles.—The principle titles of honor, profession and re-

spect used in the United States are:

His Excellency-President of the United States, Governor of any state, Minister to foreign country.

Honorable-Vice-President, Senators and Representatives of the United States, Lieutenant Governor of a state, State Senators and Representatives, Judges, Consuls, Mayors and heads of Executive Departments of the General Government.

Rev. Joseph Smith, D. D., doctor of divinity. Rev. Joseph Smith, L.L. D., doctor of laws.

Rev. Joseph Smith, minister of the gospel.

Dr. Joseph Smith, physician or surgeon.

Prof. Joseph Smith, professor or teacher of any art or science.

Joseph Smith, Esq., member of legal fraternity.

Mr. Joseph Smith, non-professional gentleman.

COMMERCIAL FORMS.

Fifty Facts and Principles on Writing, Transferring. Collecting and Paying Notes.

- 1. Notes are very common, and of great utility in business. At the present time a large proportion of all the business is transacted on credit, that is, a tradesman, instead of paying for his stock when he buys it, promises to pay at some future time; that promise, whether oral or written, is itself property. and may be transferred from one to another.
- 2. Notes are written and unconditional admission and evidence of a debt and facilitate the use of credit, which is and has been a great factor in the extension of commerce and trade.
- 3. A note is a simple written promise to pay a certain sum at a certain time, or on demand, or at sight to a person therein named

The person who promises is called the maker, and the one to whom he promises is called the payee.

4. A protest of a note is a formal statement by a notary public that said note was presented for payment and was refused.

WRITING NOTES.

- 5. Notes are made payable to bearer or to order.
- 6. If the words "order" or "bearer" are omitted, the note is not transferable.
- 7. Negotiable in a commercial sense means transferable. A negotiable note contains the word order or the word bearer. This is the English common law, but in Illinois and some other States the words "order" or "bearer" are not necessary to make a note negotiable.
- 8. The name of the place and State should be written on the note. It is as important as the date.
- q. A note may be written on any kind of paper in ink or in pencil.
 - 10. A note made and issued on Sunday is void.
- 11. A note negotiable must contain five things: (1) that the date of payment be certain to come; (2) that it have one of the two words, "order" or "bearer"; (3) that the amount be

specified and certain; (4) that it be payable in money only; (5) that it be an unconditional promise. (See 7 above.)

- 12. A non-negotiable note is payable to a particular person only.
- 13. The words "without defalcation" must be inserted in Pennsylvania notes.
- 14. A promissory note does not bear interest until after maturity unless so specified.
- 15. The signature on a note or bill need not be proven, ur less it is first denied under oath.
- 16. The words "value received" are not legally necessary, although they usually appear on ordinary promissory notes.
- 17. When several persons unite in a note and say, "we promise" or "we jointly promise," it is a joint liability only, and all must be sued; but if they say we or either of us promise, or "we jointly and severally promise," the liability is both joint and several, and either or all may be sued.
- 18. When a note says "I promise," but is signed by two or more, each signer is bound for the whole amount, and each or all may be sued.
- 19. Promissory notes can be transferred after maturity, but are, however, subject to any defense which might have been made against the original payee.

TRANSFERRING NOTES.

- 20. Paper payable to bearer is transferred by delivery, payable to order by indorsement.
- 21. An indorser is a person who writes his name on the back of it.
- 22. Indorsement in blank is writing only the name without the words, "pay to the order of."
- 23. The indorser is liable for its payment if the maker fails to meet it.
- 24. An indorser who is compelled to pay a note has a just claim against the maker and against each indorser whose name appears above his own.
- 25. An indorser to whose order a note is drawn or indorsed, can transfer it without becoming liable for its payment by writing the words "without recourse" over his signature on the back. See Form 3, page 112.

COLLECTING NOTES.

- 26. A note destroyed by fire can be collected by proof of loss.
- 27. Money paid under mistake must be refunded.
- 28. If no time is specified the note is payable on demand.
- 29. The day of maturity is the day on which a note becomes legally due. In some states three days, called days of grace, are allowed after the expiration of the time given in the note before it becomes legally due.
- 30. In finding the day of maturity actual days must be counted if the note is drawn days after date, but months are counted when the note is drawn months after date.
- 31. Days of grace have been abolished in recent years in a number of States. The States still allowing them are: Alabama, Arizona, Arkansas, Indiana, Iowa, Kansas, Kentucky, Maine, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, North Carolina, Rhode Island, South Carolina, South Dakota, Texas, Washington, West Virginia, Alaska except on demand notes, Colorado, Georgia except on sight paper, Indian Territory, Louisiana except on sight paper, New Mexico, Oklahoma except where expressly waived in the note, Wyoming, West Virginia allows grace where expressly specified in the note.
- 32. Negotiable paper payable to bearer or indorsed in blank, which has been lost or stolen, cannot be collected by the finder or thief, but a holder who innocently receives it in good faith before maturity for value, can hold it against the owner's claims.
- 33. A note made in one State, payable in another, must be governed by the laws of that State in which it is to be paid.
- 34. Demand for payment of a note must be made upon the day of maturity and at the place named. If no place is specified then it is payable at the maker's place of business or at his residence. If it falls due on Sunday, demand must be made on the day previous. In most of the States where note falls due on Sunday or legal holiday, by statute the maker is given until the following day to pay the same.
- 35. An extension of the time of a note by the holder, releases sureties and indorsers, unless consent to such extension has been given by the indorsers or sureties. In some States this consent may be given verbally, in others it must be in writing. Safety would suggest that it always be given in writeing or that a new note be given.

'HE PRICE OF TIME IS WILL AND SKILL.

36. Upon presentment for payment and refusal by the maker at maturity, in order to hold the indorser, suit should be immediately instituted upon the note against the maker, and notice of default should be given to the indorser, and in some States the note should be protested by a notary public.

PAYING NOTES.

- 27. Indorsers.—All the parties who have written their names on a note are liable for the amount due; but only one satisfaction can be recovered.
- 38. Indorsements.—Payment made to apply on a note should always be indorsed on the back of the note. The indorsement requires no signature. The usual form is to give the date and write "Received on within note" stating sum paid. It is always well to see that the proper paper is indorsed. All payments of principal and interest must appear as indorsements upon the back of the note. If no indorsement is made and the note passes into innocent hands payment of the face value with interest can be demanded.
- by parties and these notes are secured by mortgage it is best to cancel them or mark them paid as soon as they are taken up, but not to destroy or to mutilate them by tearing off signatures. It is important that every note be kept until all are paid and the mortgage discharged.
- 40. Payment of Notes at a Distance.—In the payment of notes where parties live at a distance, it is best to request that the notes be sent to the nearest bank for collection. Payment can then be made and the note received in a safe and business-like way.
- 41. Inquiring for Notes at Bank.—When calling at a bank for your note, always mention the exact day on which it falls due; if the paper belongs to another party, and is held by the bank for collection, then mention also the name of the person to whom it was originally given; if you have received written notice concerning the note, take this notice with you, for it will tell the whole story. Banks keep their own notes in one place, and those of their customers in another; they also keep each date by itself and can, therefore, find notes more readily, if ewners' names and date of maturity are given.

PAYMENT DEFEATED.

Many cases occur in which notes are void or in which payment may be defeated especially when held by the original parties. Such are:

- 42. A note given by one who is not of age, unless the minor ratifies it after becoming of age.
 - 43. A note made by an intoxicated person.
- 44. A note given by one who cannot write and not witnessed to at the time.
- 45. A note obtained by duress, in case of compulsion, by fear or illegal imprisonment, or by threats that would lead an ordinary person to fear injury to his person, his reputation or his property. Such defense would be good and would defeat payment.
- 46. Obtained by fraud or by finding. In these cases the original parties can not collect anything.
- 47. A note that has been stolen cannot be collected by the party that committed the theft, but if an innocent person buys the note for a consideration, he can collect it.
- 48. A note given for illegal consideration is illegal everywhere.
- 49. One who receives a note knowing it to have defects, gets no better right to collect it, than the one from whom he received it had.
- 50. If a person at the time of taking a note has notice that it is void through fraud, or upon any legal grounds, he cannot collect it.

These defenses would all hold good unless transfer for consideration has been made before maturity in which case some af them would fail.

DIFFERENT FORMS OF NOTES.

Negotiable by Indorsement.

\$375.00.

Naperville, Ills., Oct. 7, 1901

One year after date I promise to pay to J. S. Nichols, or order, Three Hundred and Seventy-five Dollars, for value received, with interest at six per cent,

J. R. Price.

Negotiable without Indorsement.

Cleveland, O., Aug. 1, 1901.

Ninety days after date I promise to pay James Jones or bearer, One Hundred Dollars, value received.

Not Negotiable.

0.00. Chicago, Ill., Dec. 10, 1901. Sixty days after date I promise to pay Geo. C. Dixon One Hundred llars, value received. EUGENE LANSING. \$100.00. Dollars, value received.

Note Payable in Gold.

0.00. Sacramento, Cal., June 15, 1901. One year after date I promise to pay J. G. Snyder, or order, Two \$200.00. Hundred Dollars, in U. S. gold coin, with interest at one per cent. per month in like gold coin until paid.

W. F. TEEL. month in like gold coin until paid.

A Corporation Note.

Augusta, Me., Mar. 18, 1901. Nine months after date, the Granite Stone Company promises to pay S. A. Chilton, or order, Two Hundred Dollars, with interest at seven GRANITE STONE COMPANY. per cent. Value received. Attest: I. K. Dawes, Secretary.

O. R. Phillips, President.

N. B.-If corporation notes are drawn and signed in the above manner the officers are not personally liable.

Collaterals.—If a man borrows \$2,000 on his personal note and gives twenty shares of bank stock or other notes to be held as security, such shares or notes are called collaterals. They are still the property of the borrower but the lender is responsible for their safe keeping. The lender has power to sell the property if the note is not paid at maturity.

Collateral Note.

\$500.00. Mendota, Tex., Sept. 25, 1901. Sixty days after date I promise to pay to the order of T. J. Boyd, Five Hundred Dollars, without defalcation, for value received. Interest at eight per cent.

Having deposited United States Bonds of the nominal value of Six Hundred Dollars, which I authorize the holder of this Note, upon the nonperformance of this promise at maturity, to sell, either at the Brokers' Board or at public or private sale, without demanding payment of this Note or the debt due thereon, and without further notice, and apply pro-eeds, or as much thereof as may be necessary to the payment of this Note, and all necessary expenses and charges, holding myself responsible for any deficiency.

W. W. STRATTON.

A Judgment Note differs from an ordinary promissory note in having a clause appended giving the holder permission to proceed without delay to sacrifice the property of the debtor to satisfy the debt. This is a very severe form of contract and should be given only under the most extreme conditions.

Judgment Note.

000.00 Philadelphia, Pa., Jan. 4, 1901. Six months after date I promise to pay J. W. Krasley, or order. \$2,000.00

Two Thousand Dollars,

value received with interest: And do hereby authorize any attorney of this county or any other county in this state or elsewhere, to enter and confess judgment for the above sum with costs of suit and attorney's commission of future for collection, release of errors, and without stay of execution, and do waive the right and benefit of any law of this or any other state exempting property, real or personal, from sale, and if levy is made on land, do also waive the right and inquisition and consent to the condemnation thereof, with full liberty to sell the same on f. fa. with release of errors therein. GEO. W. BAIRD.

Payable at Bank.

\$440.00. Chicago, Ill., Oct. 10, 1901. Two years after date, for value received, I promise to pay T. M. Culver or order, Four Hundred Forty Dollars at Second National Bank, vinterest at eight per cent. per annum. CHARLES HEARN.

On Demand.

\$25.07. Toronto, Ont., Oct. 12, 1902.
Or Demand I promise to pay to the order of J. T. Connor, Twenty-Five
67-100 Dollars. Value received, with interest at six per cent.

A. H. SIMPSON. NOTE.—This note answers the same purpose as a note written one day after date.

Joint Note.

\$200.00. Lisle, Ill., Jan. 1, 1901. One year from date, we promise to pay D. F. Shaw or order, Two Hundred Dollars. Value received. Interest at six per cent. J. LEWIS BEAN.

B. A. WHITE. Joint and Several Note.

\$2,000.00.

Ten months after date, we, or either of us, promise to pay Maggie Patterson Two Thousand Dollars, value received.

J. C. HARDY. R. E. WOOD.

Principal and Surety Note.

Montreal, Sept. 21, 1901. For value received, on or before July 27, 1903, I promise to pay to the order of Grover Cleveland, Six Hundred Dollars. Interest at nine per cent.

W. J. SHAW, Principal.
THOS. RODDEN, Surety.

NOTE.—The general form of a Principal and Surety is for the principal to properly sign the note, and the surety to endorse it.

A Note by One who Cannot write.

Cleveland, Ohio, Mar. 20, 1901. \$49.50. One year after date, I promise to pay N. Bowker or order Forty-nine \$0-100 lollars, with interest at eight per cent. Value received.

JOHN x BOURKE.

H. A. Starr. Witness.

N. B.—A note made by a person who cannot write should always be witnessed by a disinterested person.

*Iron Clad Form.

Salo.00. Salt Lake City, Utah, May 19, Two years after date, for value received, we promise to pay to the order of L. B. Lawson, Three Hundred Dollars, negotiable and payable at the Commercial National Bank of Salt Lake City, Utah, without defalcation or discount, with eight per cent interest per annum from date until paid, both before and after judgment, payable in U. S. gold coin; and it suit be instituted for the collection of this note we agree to pay Twenty Dollars attorney's fee. If the interest be not paid as herein stipulated, the legal holder of this note may declare the principal due, and proceed by law to recover both principal and interest.

T. C. HALLETT. J. T. HALLETT.

A Note by a Married Woman.

San Francisco, Cal., June 15, 1901. \$200.00.

Two years after date, I promise to pay Fred. Lueben, or order, Two Hundred Dollars, with interest at eight per cent., payable annually. MRS. MARY CHANDLER. Value received.

N. B.—A married woman could formerly incur no liability, but now the statutes of the various States give her more or less freedom to enter into contracts, and consequently her note can be enforced against her. But in most States she cannot be bound by a note given to her husband, nor can he give a note to her. If she lends money to him and takes his note, a court of equity will oblige the husband to pay her, but the court of law will not.

Chattel Note.

\$700.00. Earlville, Ill., Aug. 17, 1901.

Thirty days from date, for value received, I promise to pay Walter J. Miller or order, Seven Hundred Dollars in Warrenville Flour, at the them market rate, the same to be delivered at the option of the owner withtouthe limits of the town of Earlville.

C. D. CHAMBERS.

Accommodation Note.

\$500.00. Meriden, Vt., March 13, 1901.

Sixty days after date I promise to pay to the order of S. J. Umbreit, Five Hundred Dollars, at the Earlville National Bank, without defalcation. Value received.

M. SUNDERMAN.

Credit the drawer, S. J. Umbreit.

NOTE.—An accommodation note is where a person gives his note to another person, who is by agreement permitted to take it to the bank and have it discounted. In the hands of the original holder it cannot be collected.

Produce Note.

\$37.00. Memphis, Tenn., Nov. 20, 1901. For value received, I promise to pay to L. L. Orth on demand. Thirty-seven Dollars, in goods at our store. J. L. STROHM.

My Own Order.

Ottawa, Ont., July 20, 1901. For value received, I promise to pay, sixty days after date, to my own

order, Two Hundred Dollars, with interest at eight per cent. A. S. BARNARD.

NOTE.—A note may be drawn to the maker's own order, with his indorsement in favor of the creditor. This note then can be transferred without indorsement.

[•] This form is used by bankers and brokers in the Rocky Mountain and Pacific States; it is really a form of Judgment Note.

A Joint and Several Nove Transferable.

INDORSEMENTS OF NOTES.

- I. The word indorsement signifies a writing on the back of a bill or written instrument.
- 2. Indorsements are made for the purpose of transferring the title or ownership of notes from one person to another. This quality of transferring negotiable paper gives to it its great value and importance in commerce.
- 3. The payee of a note may transfer his title to another person by writing across the back of it his own name and then delivering it to the other person.
- 4. Indorsements are generally made before the maturity of the paper, but they are sometimes made after.
- 5. When no date is connected with the indorsement the presumption is that it was made before the paper fell due.
- 6. When the payee of negotiable paper has indorsed a note or bill, he is then called the indorser, and the person to whom he transferred the title is called the indorsee.
- 7. The indorsement may be on any part of the note, or on a paper annexed to it, in ink or in pencil.
- 8. When note or bill is drawn payable to a person or his order, it is transferable only by his indorsement. Nothing else in law will hold the parties to a note directly liable to the holder.
- 9. When money is received on a bill or note, the amount and date of receiving should be plainly written on the back of the paper.

Forms of Indorsements.

L. Indorsement in Blank. Fohn S. Barton.

Indorsement in Full.

Pay to Jas. Jones, or order. John S. Barton.

Qualified Indorsement.

Without recourse.

John S. Barton.

B. Restrictive Indorsements.

Pay Robert Hunter, for my use.

Fohn S. Barton.

Pay to Chas. Harrison only. John S. Barton, 5. Conditional Indorsement.

Pay to the order of George Gray, the within, unless before due he receives the amount from my agent.

John S. Barton.

6. Indorsement by an Agent.

Howard Chester, By John S. Barton, his agent

7. A Guaranty on a Note.

For value received in cash, i hereby guarantee the paymens of the within note.

John S. Barton

1.-Blank Indorsement.

A blank indorsement is writing the name of the holder on the back of the note. This, however, is not the best form of indorsement, and should rarely be used.

Form 1 (page 106) is indorsed in blank as follows:



N. B.—This note is now transferable without further indorsement.

2.-Full Indorsement.

When the holder writes upon the back of the note, or bill, the name of the person to whom it is to be paid, and makes it payable to his order, and signs his name below, it is called a full indorsement.



N. B.—This note cannot be sold or transferred without Mr. West's indorsement. Do not write "Pay to J. A. West or order." The word "order" can easily be stricken and "bearer" written over it and then any one holding the note can collect it. Always write "Pay to order of," as in above form.

3.—Qualified Indorsement or, How to Avoid Liability.

This is generally done by inserting the words "without recourse" in the indorsement. It relieves the indorser from all liability to pay, while at the same time it transfers the title perfectly to the one to whom it is sold.



4.-Restrictive Indorsement.

A restrictive indorsement is intended to confine the payment some particular person or purpose. Form 1 (page 106) is restrictively indorsed as follows:



N. B.—This note cannot be transferred. The mere omission of the words "order" or "bearer" in an indorsement on the back of a note or draft does not have the same effect as the omission of the same words in the face of the note or draft. If omitted on the face, it restricts negotiability.

5.-Conditional Indorsement.

Neither the original character of the note nor its negotiability is affected by a conditional indorsement. It only affects the title of the one to whom it is transferred.

The Form of a Money Indorsement.



ORDERS.

An order is a written request to deliver money or goods to person named, or to his order, or to bearer, the same to be tharged to the person signing the request.

Orders are negotiable, but the person on whom they are drawn is not under obligation to pay them, unless they have been accepted, for an order partakes of the nature of a draft.

\$54.00.

Baltimore, Oct. 14. 1902.

Messrs. M. Brown Efo will please pay to the warer Fifty-four Wollars in goods, and charge the same to my account.

Clara Powers

In Full of Account.

325.00.

C. A. Mather, Esq.:

St. Louis, April 13, 196

Please pay John Rickert, or beares, Twenty-five Dollars in goods, and this shall be your receipt in full of my tocount.

P. D. CRIMMINS.

For Goods.

Mr. W. Walsworth:

New Orleans, March 4, 1901.

Please send me per bearer ten barrels of Genesee Flour, and oblige,
Yours truly, MINNIE HOWARD.

An "I. O. U."

Chicago, Ills., Qec. 23, 1901.

Om. a. O. Roger:

O. O. W. Sixty Dollars (\$60.00).

W. G. allen

The above is called an I. O. U. It is not a promissory note, but is evidence of a debt due by virtue of a previous contract.

HOW TO WRITE ALL KINDS OF DUE BILLS.

A due-bill is not generally payable to order, nor is it assignble by mere indorsement. It is simply the acknowledgment

of a debt; yet it may be transferred It may be payable im money or in merchandise.

Due-bills do not draw interest, unless so specified.

\$125.00.

Chicago, Aug. 14, 1900.

Que Henry Harrington, for value received, One Olindied and Twenty five Wollars, with interest

ON Binzer

On Demand.

\$250.00. Naperville, Ill., July 1, 1901. Due E. E. Miller, on demand, Two Hundred Fifty Dollars in goods A. T. HANSON. from my store, tor value received.

In Merchandise. 200.00. Due R. William, or order, One Thousand Dollars, payable in wheat at \$1,000,00. market price, on the first day of January next. CHARLES SCHUERER.

HOW TO WRITE ALL KINDS OF RECEIPTS.

A receipt is an acknowledgment in writing that a certain sum of money or thing has been received by the party giving and signing the same.

- I. A complete receipt requires the following statements: That a payment has been received; the date of the payment; the amount or article received; from whom received, and if for another, on whose behalf payment is made; to what debt or purpose it is to be applied; by whom received, and if for another, on whose behalf it was received.
- 2. If the giving and receiving of receipts were more strictly held to in the transactions of the various kinds of business, less trouble, fewer law-suits, and the saving of thousands of dollars would be the result.
- 3. If payment is made upon account, upon a special debta or in full, it should be so stated in the receipt.
- 4. When an agent signs a receipt, he should sign his principal's name and then write his name underneath as agent.
- 5. It is not necessary to take a receipt on paying a note, draft, or other instrument indorsed by the payee, because the instrument itself becomes a receipt.
- 6. If a receipt is obtained through fraud, or given under error or mistake, it is void.

ALL THE DIFFERENT FORMS OF RECEIPTS.

1. Receipt for Payment on Account.

\$250.00.

Naperville, Ills., July 6, 1900.

Received of J. L. Nichols, Two Rundred

and Fifty Dollars on accounted

J. K. Rohmer.

2. Reseipt for Settlement of an Account.

Joliet, Iil., March 20, 1901.

Received of Thomas Rourke, Two Hundred and Twenty 14-100 Dollars, in settlement of account to date.

C. S. SELBY.

3. Receipt in Full of all Demands.

Meriden, Conn., Jan. 14, 1901, Received of C. F. Hetche, One Thousand Dollars, in full of all demands to date.

O. N. OBRIGHT.

4. Receipt for a Particular Bill.

Brooklyn, N. Y., Aug. 1, 1902. Received of Morris Cliggitt, Four Hundred Dollars, in Payment for & bill of Merchandise.

5. Receipt for Rent.

Snyder, Tex., Mar. 20, 1901.

Received of L. Heininger, Forty Dollars, in full for one months
rent, to April 20, for residence at 44 Olive Street.

J. LEWIS BEAN.

Receipt for a Note.

Rec'd, Buffalo, March 6, 1901, from Messrs. Taylor & Co., their note of this date, at three months, our favor, for Twelve Hundred and Twenty Dollars; which, when paid, will be in full of account rendered to 1st fastant.

\$1,220.00. C. H. OLIVER.

7. Receipt for Service.

Received of Samuel Lynn, Forty-Four Dollars, in full for services to date.

\$44.00.

DANIEL FURBUSH.

8. Receipt for Money Advanced on a Contract.

\$500.00. Chicago, Olls., May 10, 1908.

Received of Arthur Sahl the sum of Five Olundred Bollars, part payment on contract to build for him a house at No. 1439 Perry St. Chicago.

Carl Dione



Receipt for the Purchase of a Horse.

Omaha, Neb., March 20, 1901,
Received of J. Lerch, Two Hundred Dollars, for a black mare, waranted only six years, sound, free from vice, and quiet to ride and drive.

CHARLES M. SMITH.

10. Indorsement of a Partial Payment of a Note.

Rec'd, March 4, 1901, on account of within note, Three Hundred Dos-

11. Receipt for Borrowed Money.

\$35.00. Naperville, Ills., July 20, 1901.

Borrowed and received from D. B. Givier, Thirty-Five Dollars, which promise to pay on demand, with interest.

HENRY RAYMER.

12. Receipt for Property.

Received of Louis Heininger, the following enumerated articles, to be held in trust for him, and returned on his demand: One Gold Watch, two Promissory Notes, each dated March 4, 1901, and signed by Henry Taylor—one for Three Hundred Dollars, and one for Seven Hundred, each due one year from date.

WILLIAM PLACE.

13. Receipt for Payment by the nand of a Third Party.

\$450.00. Jollet, Ky., June 4, 1901. Received of Carl Cook by the hand of Frank Furbush Four Hundred Fifty Dollars, in full for proceeds of sale of stock, sold May 28, 1901.

14. Receipt for a Note of Another Person.

\$200.00. Aurora, Ills., May 10, 1900.

Received of Geo. Volk, a note signed by W. W. Paxton for the sum of Two Hundred Dollars, which, when paid, will be in full of all femands to date.

WILLIAM KRUGER.

(FOR INTEREST DUE ON MORTGAGE.) Received of

A Receipt for Interest Due on a Mortgage.

Fox Lake, Mis., May 15, 1902.

\$300.00

Three Rundred Dollars, in full payment for a certain note given by said James D. Flackfoot, dated May 12, 1901, calling for Three Dundred Pollais; which said note is lost, destroyed, or mis. boid, and this receipt is a guarantee against future demands on account Received of James M. Blackfoot -of said note.

(S. M. Twoheast.

N. B.—Better never lose a note.

BANKS AND BANKING.

- 1. History.—The antiquity of banks is very great. Of modern banks the bank of Venice was the first in date. The Bank of England is more than two hundred years old. The first bank in America was the Bank of North America, in Philadelia, established in 1782.
- 2. Value to Business Men.—Banks are essential for the carrying on of modern commercial enterprises. They provide for the safe-keeping of money and securities, they give business men an opportunity to borrow money, they afford facilities for collection of notes, checks, and drafts.
- 3. Custodian of Money.—A banker is the custodian of the money of other persons. Such is his business, viewed in its simplest aspect. A banker, if he hoarded the money deposited with him, would be simply a cash-keeper to the public; his bank would be literally a bank of deposit. Even were the business of banking limited to the keeping of deposits it would be of no small advantage to society: the depositors would be relieved from the care of their money, and in many cases from the trouble of handing it to those to whom they required to make a payment. If the person to whom the depositor wishes to pay money intends also to deposit it, a transfer in the books of the banker from the one to the other, made on the order or check of the depositor, would effect the payment. The money itself would lie undisturbed.
- 4. Loaning It Out.—But the business of receiving money has almost always been, and is now universally, combined with that of lending it out. A banker coes not hoard all the money deposited with him—he gives the greatest portion out in loans. The lending of money is as much a part of his business as the receiving of deposits.
- 5. Interest.—For the money he lends he receives interest from the borrowers; and in this interest he is paid for s trouble in taking care of the deposits, and for his risk of bad debts. The services that a banker performs as the cash-keeper of his depositors are great. In the case of persons not themselves in business it is quite usual for a banker to make all the money payments, beyond their small daily expenditure, and to receive the money payable to them.

6. Discounts.—Banks make their loans chiefly in the form of discounts; that is, upon bills of exchange. Commodities in the wholesale market are generally sold on credit. The buyer promises to pay the amount on a certain date to the seller, and his promise is contained in a bill of exchange. The seller transfers it to a bank, which, on the faith of it, advances the amount in loan to him, less discount, that is, interest of the money till

the bill be due. This is called discounting.

7. National Banks.—The system of national banks was established by act of Congress, Feb. 25, 1863. As amended by the act of 1900, national banks may be organized as follows: In towns not exceeding 3,000 in population, with a capital of \$25,000; in towns of from 3,000 to 6,000, \$50,000 capital; in towns of from 6,000 to 50,000, \$100,000 capital; over 50,000, \$200,000 capital and upwards. National bank notes must be issued by each national bank to the amount of at least one-quarter of its capital, and such notes may be issued to the full amount of each bank's capital at the option of the directors. These notes are secured by U. S. bonds deposited in the United States Treasury. Only one-third of the notes issued by each bank can be in five dollar bills.

8. Aggregate Circulation.—In 1863 the aggregate circulation allowed was \$300,000,000, but an act passed in 1875 repealed all limitation on amount of circulation and made national bank-

ing practically free.

9. Safety.—The "National" bank is a private institution, differing from other banks only in this, that bonds have been deposited with the government as security for paper money, which the bank may issue. It is generally supposed that national banks are more secure than others. The examination of these banks by a government inspector has gained the confidence of the public in these institutions. We would not depreciate the necessity or value of these inspections, but that they are no guaranty of safety is seen from the many "National" banks that have gone into bankruptcy.

10. Circulating Notes.—National banks do not always issue the amount of circulating notes permitted by law. When a low rate of interest and a high premium on bonds prevail it does not pay banks to issue currency secured by bonds.

State and private banks do not issue circulating currency, they are usually deposit banks only and carry on a general business of loaning and dealing in money.

11. Number.—August, 1910, there were 7,145 national banks, with an authorized capital stock of \$989,567,114. The number of state banks in the United States is 15,950. Capital \$890,376,774.

12. Failures.—From January 1, 1893, to June 30, 1900, the number of failures of banks, other than national, was 908; from October 31, 1892, to October 31, 1895, there were 120 failures of

national banks.

- 23. Banks that Never Fail.—The Chinese may be a trifle s'ow in their boasted intention of wiping the Mikado's kingdom off the map, but there are some features of their banking system which our boasted Western civilization might adopt with profit. Currency, in the form of bank notes, was issued in China as early as the ninth century, although the art of printing was not known in Europe till some centuries later. Chinese bank-notes are always redeemed, because the law in China provides that, when a bank fails, every man connected with it, including the managers and clerks, shall have his head chopped off, and they are all thrown in a heap, together with the books of the firm. This law has had such a salutary effect that not a single Chinese bank has suspended payment within the last five hundred years.
- 14. Government Banks.—It has been proposed that the government establish banks throughout the country for deposit and loaning purposes; that in country districts postmasters be authorized to receive money on deposit and send the same to the nearest loaning depositories. The profits arising to the government from loaning money at 4 per cent. on this plan, after all expenses are paid, is estimated at 400 millions annually. Some think this a visionary scheme, but it might prove far superior to our present system.
- on deposit small sums of money, the surplus earnings of laborers. Every depositor is an owner in the bank and the profit is paid to depositors in interest. At the end of a stated term the interest is added to the depositor's account. Savings banks are generally under state supervision. They encourage the saving of money by the common people.
- A Bank Account.—Every young man should aim to have a bank account, however small the beginning. It will teach economy and has often been the starting point to success.

Keeping a bank account is not confined to business men and capitalists. Many farmers and wage earners have their bank accounts and everybody ought to know how to do bank business. At least ninety per cent. of the medium of exchange consists of bank checks.

A bank account is a great promoter of self-respect. To save part of one's earnings and have an account in a bank wins esteem from all good people. It is a distinction that also acts upon the possessor.

HOW TO DO BUSINESS WITH A BANK.

- 1. In beginning an account with a bank a depositor is required to put on record in the "signature book" his name as he intends to sign it on his checks.
- 2. Do not wait until you get to the bank to count your money or to indorse your checks.
- 3. Arrange your deposit at least before you present yourself at the receiving teller's window.
 - 4. Place your bills all one way; right side up.
- 5. Make your deposits in the bank as early in the day as possible, and never without your bank-book.
- 6. Always use the deposit tickets furnished by the bank. When checks are deposited, the banks require them to be indorsed, whether drawn to order or not.
 - 7. Keep your check-book under a lock and key.
- 8. Draw as few checks as possible; when several bills are to be paid, draw the money in one check.
- 9. Do not allow your bank-book to run too long without balancing. Compare it with the account of the bank.
- 10. In filling up checks, do not leave space in which the amount may be raised.
- II. Write your signature with the usual freedom, and never vary the style of it.
- 12. Every check is paid by the bank at its own risk. If forged the bank must lose the amount.
- 13. Always keep the stub of your check-book, and in issuing a check always fill the stub out first.
 - 14. Never make deposits without your bank-book.
- 15. Always examine your bank-book after depositing. It is the only receipt you have for money deposited.

CHARACTER TELLS IN ALL CONDITIONS OF LIFE.



DOING BUSINESS WITH A BANK.

DISCOUNTING A NOTE AT THE BANK.

- I. Discount is a certain percentage deducted from a note or gebt for the payment of same before it is due.
- 2. Bank discount is simple interest on the principal, taken in advance.

It is the business of a bank to loan money to responsible persons, within reasonable limits. Regular customers receive first consideration. It is proper for you to offer any paper you may wish discounted to your banker. Take it coolly if you are refused, for the banker knows his own business best. The principal profit in banking is discounting notes, which is simply loaning money and receiving the interest in advance.

3. In discounting a note which is drawing interest, the discount must be reckoned on the amount or value of the note when due. (The interest for the full time must be first added to the face of the note before computing the discount.)

Example.-Robert F. May, on May 2d, offered the following note properly indorsed, for discount:

Philadelphia, March 29, 1901. Sixty days after date, we promise to pay to Robert F. May, or order, at the Union National Bank, Five Hundred and Twenty-Five Dollars, without defalcation. Value received.

R. J. BIRNEY & CO.

How much will he receive as the net proceeds of the above note?

Sixty days from March 29th is May 28th. From May 2d to May 28th. raciuding the day of discount, is 27 days.

Interest on \$525 for 27 days—2.36 discount.

525-2.36-522.64 net proceeds.

VITAL POINTS ON CHECKS.

- 1. A check is a simple order on a bank by one who has funds in the bank, for the immediate payment of a certain sum of money.
- 2. A bank can stamp a check good, or certify it, and thus become responsible to the holder for the amount.
- 3. In sending a check away from your own town or locality it should always be certified, as in the above.
- 4. A check is not due until presented. It is negotiable. It has no days of grace.
- 5. Giving a check is no payment of an indebtedness, unless the check is paid.
- 6. The death of the maker of the check before presentment to the bank renders the check null and void.
- 7. A forged check paid by the bank is the bank's loss, and not the depositor's.
- 8. Payment of a check may be stopped by subsequent order to bank by maker before presentment of check.
- 9. The amount of the check should always be written out in words.
- 10. Every holder of a check is liable to a subsequent holder only for the time for which he would be held, if originally liable.
- 11. It is the safest rule always to act with diligence in presenting checks for payment.
- 12. If a raised check is paid by the bank, it can only charge the depositor the amount for which he drew, unless the raising of the check was made possible by the carelessness of the maker. In that case the maker would be responsible for the loss.
- 13. If you have money in a bank and you wish to draw out a certain sum, write "Pay to myself," instead of writing your name in the body of the check, and then sign it.
- 14. Banks of this country do not cash a check drawn payable to order unless the person presenting the check is known to the bank.
- 15. If you write a check for a stranger who needs identification at your bank, have him indorse the check in your presence and under him indorsement write "Indorsement above guaranteed," signing your name. He can then draw the check without further identification by signing his name again in the

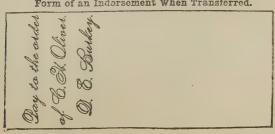
presence of the banker. Another method is to write "Pay to Cash."

16. Do not draw a check unless you have the money on deposit or in your possession to deposit. Do not presume on the generosity of your bank by drawing a sum larger than your balance.

HOW TO INDORSE A CHECK.

- 1. The check is the most common commercial paper in use, and it is astonishing to see how many intelligent and educated people lack the necessary information on this subject.
 - Write across the back (not lengthwise) near the left end.
- 3. Simply writing your name on the back is a blank indorsement, and signifies that it has passed through your hands, and is payable to bearer.
- 4. If you wish to make the check payable to some particular person, write: Pay to the order of (person's name), and then sign your name below.
- 5. Always indorse a check just as it appears on the face. If a check is payable to F. Block, it cannot be indorsed Frank Block. If the spelling of the name on the face of the check is wrong, indorse first as the name appears on the face, and below this first indorsement write your name correctly.
- 6. If the name on the face of the check is written Rev. W A. Schutte, it must be so written in the indorsement.
- 7. If you wish to deposit a check, write: "For Deposit," and below this your name. This is not necessary if you take the check to the bank yourself.
- 8. Do not write any unnecessary information on the back of your check. A story is told of a woman who received a check from her husband, and when cashing it wrote "Your loving wife" above her name on the check.

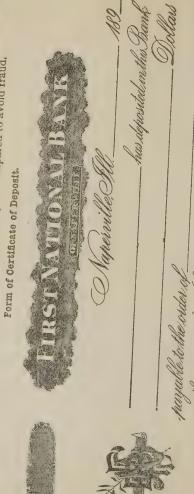
Form of an Indersement When Transferred.



CERTIFICATE OF DEPOSIT.

Certificates of deposit are used when money is deposited for a short time, and no regular bank account is kept. They can be used the same as a certified check

In issuing certificates of deposit to strangers banks usually take their signatures upon the margin of the certificate book, so that the signatures may be compared to avoid fraud,



With Interest at the rate of _____ ver tent per annum if left_

nterest ofter maturing



RAISING A CHECK.

\$7,00 to \$97.00 by writing the word "ninety" before the "seven" and the figure "9" before the Great care should be taken in writing checks, for a fraudulent receiver might easily raise a poorly written check. The illustration given here shows a check that could easily be raised from figure "7."

WHIST NATIONAL BANK Naperville, III., Acril 14 1901.

James Goodby

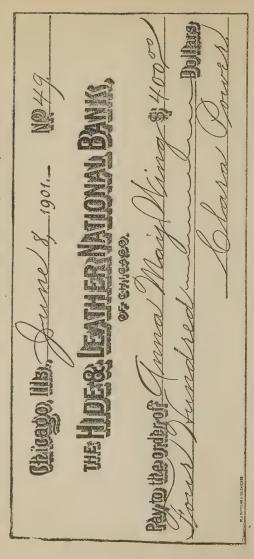
OF NAPERVILLE.

2 H Williams

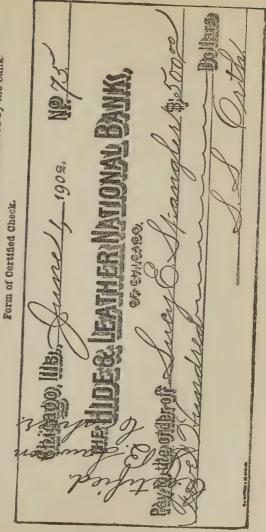
in such case it would be exceedingly difficult to hold a bank responsible for your own careless-A check for \$100 could easily be raised to \$160 by writing the words "and sixty" after the words "one hundred" and changing one of the ciphers to a &

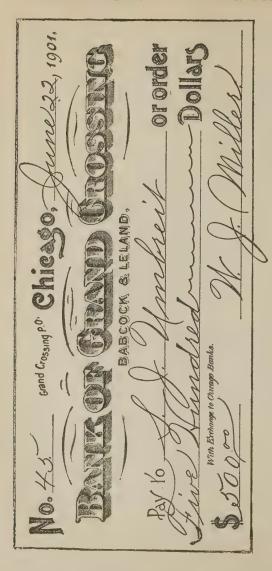
CHECK PAYABLE TO ORDER.

The following form of a check payable to order is the form generally used;



running line should always be drawn, as shown in the above. If necessary to write a check for less In writing in the amount begin at the extreme left of the line. After the amount in words a than a dollar, as 56 censs, write "Fifty-six cents," and draw your pen through the printed word "Dollars," A CERTIFIED CHECK. - A man may ofter you a check on the bank and still have no deposs It is best never to accept a check from a stranger unless it is certified by the bank. there





The above is a form of check sometimes used, but it is better to use the form on page 128. In If the words, "Pay this case the word "order" can easily be stricken and "bearer" written above, to order of " as on page 128, are used, the change cannot easily be mede. r Theore. Notes. 200.. and keep the Stude.

	Mational Exchange Bank, National Exchange Bank, Ray to	000	řeb. ed. 190 F. Barker, or Merchandi
)	5300.	300	000
300	Show Hundred Dollars.	<u> </u>	for Merchandise.
dise.	Pay to		m. F. Barker,
dise.	Mational Exchange Bank,		Feb. ad, 1901.
dise.	<i>P</i> .		to the second seco
disc.		The state of the s	The second secon

One year... after date... I ... promise to pay to Suo Hundred Forty. 2011 Julians, Marenville, Ths., March 3, 1901. H. A. Thobussen. at...six per cent, interest, Value received. No. 1. Due.....

> \$240 40 To C. C. Mumm.
> For Merchandise.
>
> Date March 3, 1901.
> Time One year.
>
> Due March 3, 1902.

HINTS AND HELPS FOR WRITING, ACCEPTING, AND TRANSFERRING ALL KINDS OF DRAFTS.

- 1. A draft is a written order by one person on another for the payment of a specified sum of money.
- 2. The one who writes the draft is called the "drawer," the one on whom it is written the "drawee," and the one to whom it is to be paid the "payee."
- 3. Drafts may be made payable at sight, on demand, or at a certain time after date, or after sight.
- 4. The person drawn upon is under no obligation to the holder of the draft unless he accepts it.
- 5. The usual method of writing an acceptance is, to write across the face of the draft, with red ink, the word "Accepted," following with date and signature.
- 6. When acceptance or payment is refused the draft is protested.
- 7. A protest is a formal declaration made by a notary public, under his hand and seal, at the request of the holder, for non-acceptance or non-payment, and the parties liable are formally notified.
 - 8. Drafts are negotiable both before and after acceptance.
- 9. Drafts drawn at sight or on demand are not presented for acceptance, but for payment only.
- 10. Drafts may be drawn to one's own order, and then indorsed in favor of the party to whom they are to be sent.
- II. In buying a draft at the bank, it is always best to have it made payable to yourself, and then indorse it in favor of the party to whom you intend to transfer it. This gives you a good receipt for the money.
- 12. A promise to accept a draft will be equivalent to an acceptance if it has given credit to the bill.
- 13. Should the person upon whom the draft is drawn die before it was accepted, it should be presented for acceptance to his legal representatives.
- 14. Any material alteration of a draft after it has been drawn or accepted makes it valueless.
- A draft made by one bank upon another is called a bank draft.

FORMS OF DRAFTS.

There are four kinds of drafts:—Bank Draft, On-Demand Draft, Sight Draft, and Time Draft. The Bank Draft is most frequently used. An On-Demand Draft is payable at once, while a Sight Draft is allowed three days of grace in some States.

1. Bank Draft.

The First National Bank of Naperville. Pay to the order of F. A. Lueben One Hundred Dollars.

To Union National Bank, W. L. HETZ. Cashier. Chicago, Ill.

No. 46.

2.

On-Demand Draft.

Troy Grove, Ill., Aug. 1, 1901.
On demand pay to the order of Frank Meyers at the Mendota Firs.
National Bank, One Hundred Dollars.
Value received,
A. S. HUDSON.

To Charles Lerch,

Mendota, Ill.

8. Sight Draft.

**Maperville, Tenn., July 10, 1901.

At sight pay to the order of C. Parman, Five Hundred Dollars, and Charge to the account of To Jesse Lerch.

H. H. ZEMMER.

Meriden, Ill.

. Time Draft.

\$450.30. Ottawa, Fla., July 5, 1902
Ten days from date pay to J. L. Nichols, or order, Four Hundres
Fifty 30-100 Dollars. Value received.
To Alvin Brown,
Ottawa, Fla.

6. Accepted Draft.



BILLS OF EXCHANGE.

Even, in order to prevent loss in transmission. They are sent by different routes, and the payment

These are used by travelers who are thereby saved the trouble and risk of carrying large amounts of money with them. The principal use however, is by merchants engaged in foreign trade, who make all their payments through them. The following is a form: of one of them cancels the three.

day after sight of this First of Exchange, May 1, 1902. (Second and Whird of the same tenor and date unpaid), Marie Maje Watue received, and charge the same to account of way to the order of The name for 2100.

A Foreign Draft or Bill of Exchange.

LETTERS OF CREDIT.

The Letter of Credit is one of the most useful of banking instruments. It is of great convenience to travelers in Europe and has become such a common feature of banking that every one should be familiar with its purpose and form. The first page is the Letter of Credit proper, authorizing the payment of a certain sum. The second page shows the names of the bankers and the amounts paid by each. The third and fourth pages give the names of the various bankers to whom the letter is addressed. In this way a traveler need carry with him only enough to meet local expenses. The person receiving a Letter of Credit gives the banker copies of his signature. These are forwarded to the bankers drawn upon and named on the third and fourth pages. Signatures are then compared and payment is made upon their identification. We append forms of the first and second pages of a Letter of Credit:

First Page.

SMITH BROS. & CO., Circular Letter of Credit, No. BB 27,049.

New York, May 10, 1901.

Gentlemen:—We request that you will have the goodness to furnism W. A. Schutte, the bearer, whose signature is at foot, with any finds he may require to the extent of £500 (say Five Hundred Pounds Sterling) against his drafts upon Messrs. Smith Bros. & Co., London; each draft must bear the number (No. BB 27,049) of this letter, and we engage that the same shall meet due honor.

Whatever sums Mr. Schutte may take up you will please indorse on the back of this circular letter, which is to continue in force until March

15, 1902, from the present date. 1902, from the present.
We are respectfully, gentlemer,
Your obedient servants,

To Messieurs The Bankers mentioned on the 3rd page of this Letter of Credit.

SMITH BROS. & CO.

The signature of W. A. SCHUTTE.

Second Page.

Date when paid.	By Whom Paid.	Name of City.	Amount Expressed in Words.	
Aug. 12 Aug. 24 Bept. 1	Brown, Shipley & Co. John Newton & Co. Koch, Lauer & Co. L. Rogers & Co. London Banking Co. Nat. Bank of Scot. North'n Bank'g Co.	Paris Hamburg Geneva London Edinburgh	Forty Pounds Twenty Pounds Twenty Pounds Sixty Pounds Ten Pounds Fifty Pounds Twenty Pounds	£40 0 0 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0

THE CLEARING-HOUSE SYSTEM.

Almost every business and professional man in the country keeps all the money which he does not need for casual personal expenses on deposit in a bank; he pays nearly all his bills by means of checks; and consequently he receives payments for the most part in checks drawn by those who owed him; he does not, on receiving a check, go or send to the bank to procure the money, but deposits it to his credit in his own bank; and there are many banks in every large city.

Now a wholesale merchant may receive each day a large number of checks, some on one bank, some on another. Of course his own bank, in which he deposits these checks, properly endorsed, desires to collect the money upon them at once, because its profits are made by lending at interest the money entrusted to it by depositors.

But in a city where there are twenty or forty or more banks, it would be a great waste of time and labor, besides being hazardous, for each one to send around a messenger to each bank to collect what is due. To avoid this the clearing-house has been devised.

At a certain hour on every business day a messenger from each bank goes to "the clearing," carrying all the checks against any and every other bank in the city taken during the previous twenty-four hours. The checks are made up into separate packages, and each has a statement of the aggregate amount due from the bank.

All the rest is a mere matter of addition and subtraction, which is done by the clearing-house clerks. The First National Bank has brought in checks against other banks to the amount of fifty thousand dollars; other banks have brought in checks against the First National to the amount of fifty-one thousand dollars. Then the First National is debtor to the clearing-house in the sum of one thousand dollars.

Other banks are creditors. Of course the debits and credits balance each other to a cent. The debtor banks must immediately pay, in money, whatever they each owe to the clearing-house; the whole sum is at once divided among the creditor banks, and the "clearing" is over.

Thus the claims by each bank against every other bank

in the city have been adjusted at very little expense of time and labor, and with the use of a small amount of actual money. The checks and drafts settled are called "exchanges," and the money necessary to complete the settlement is the "balance."

London originated the clearing-house. In times of money panics the clearing-house has been of great service to banks and communities. In good years the exchanges at the New York clearing-house reach nearly forty thousand million dollars a year, or about one hundred and twenty-five millions on every bank day. These vast accounts are settled by the shifting about, from day to day, of not more than ten million dollars.

This shows what an immense saving in the use of money the clearing-house makes. The principle is applied to other things besides banking. At New York and also at Boston the brokers have a stock clearing-house. Certificates of stock take the place of checks. The broker who has bought five thousand shares and sold four thousand of "Northwest" receives one thousand shares from the clearing-house and pays the money balance due on all his transactions.

But although the clearing-house principle is capable of wide application, it is chiefly employed in the bankers' clearing-houses of this country to the number of about sixty in the chief cities from Maine to Washington.

CLEARING-HOUSE MANAGEMENT.

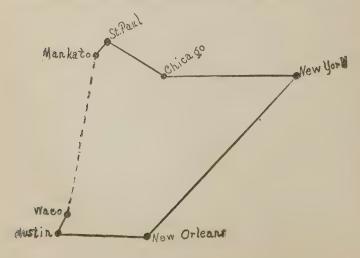
In a clearing-house where a very slight error may postpone the settlement of all the banks of the city, it is necessary that the rules be strict and rigidly enforced. The clerks employed are experts in their work. Disorderly conduct and errors are subject to a fine. A committee is empowered to remove any one when the interests of the Association require it. Should any bank fail to pay the balance due from it at the proper hour, the balances due must be paid by the remaining banks in proportion to the respective balances against the defaulting bank.

THE JOURNEYING OF CHECKS.

A business man, receiving a check in the course of trade, seldom thinks of sending it to the bank on which it is drawn, but deposits it in the bank with which he keeps his account. Formerly banks collected these checks through agents, but

the clearing-house system has made these collections more simple. Millions of dollars are collected by banks daily n this way by the transfer of a few thousands.

Checks on local banks are sometimes sent to distant points and requently pass through a number of hands before they reach the rank upon which they are drawn. Suppose, for instance, a merchant in Waco, Texas sends his check on a local bank, which payable through a bank in New Orleans, by mail to pay a bill of sixty dollars in Mankato, Minn. The Mankato merchant deposits the check in a tocal bank and receives credit for the full amount The Mankato bank sends it to its representative in St. Paul, and be in turn sends it to a representative in Chicago. The Chicago pank to which it is sent may have no southern correspondent, and sends the check to New York, where it passes into the hands of a New Orleans bank representative. At New Orleans it may pass through the clearing-house to the New Orleans bank, through which it is payable, and then it is sent to Waco, where it is charged up against the man who issued it. If this check had not been payable through a New Orleans bank, it probably would not have passed through the New Orleans clearing-house, but might have been sent direct to Waco or to Austin and then to Waco for collection. All the banks and the clearing-house through which this check passes stamp their indorsements upon the back of the sheck, so that the back of a check, through the many indorse ments, presents a strange and mixed-up appearance.



PRACTICAL INFORMATION FOR BUSINESS MEN.

TRANSFERRING COMMERCIAL PAPERS.

- 1. A Legal Transfer.—A legal transfer of commercial paper is usually made before it matures, and the law protects the innocent holder of it in his possession. Even if he buys it from the thief who stole it, or from the party who found it or got it by fraud, it belongs to him, if he knew nothing of the illegal transactions and acted without knowledge of the theft or fraud.
- 2. Usual Form.—Paper is usually transferred by indorsement (the seller placing his name on the back of the note or bill). Thus the indorser agrees to pay the amount if the maker does not, and he is therefore responsible, if properly notified when the paper is due and is not paid.
- 3. Blank Indorsement.—A blank indorsement most commonly used in business is simply writing the name on the back of the note or bill, and after the first indorsement it may be transferred by delivery the same as a government bond or bank bill.
- 4. Peculiar Sacredness of Commercial Paper.—The law protects the holder of negotiable paper in his possession of it, when it would not protect him in the possession of any other kind of property, for there is a peculiar sacredness attached to paper. Thus: If A had stolen a horse from B and sold it to C, the law would not protect C, but would allow B to take the horse. Whereas in case of a note, the law would protect C in his ownership of the note and he could hold the maker for the amount, if C was innocent and knew nothing of the way in which A got possession of the note.
- 5. The Purchaser.—If the purchaser is aware that there are any defects about a note or bill, or if there is anything suspicious, he buys it at his own risk.
- J. Transferring Found or Stolen Paper.—Should A lose his note for \$300 and B find it, the latter could not compel A to pay it, unless he could prove that he came fairly into possession of it. No thief could collect a note himself which he had stolen if the fact of this theft could be proved, but if the note had a blank indorsement on the back of it, he could transfer or selv

the note to an innocent party who could collect the note if he can show he made the purchase in good faith.

- 7. Void Paper.—Paper void where made is everywhere void. Even in case of void paper, a party who indorses it over to an innocent holder would be bound by his indorsement, because he made a new contract to pay it when he indorsed it.
- 8. Indorsement of a Note Before it is Made.—When a party indorses a note before it is made, and it is afterwards made for a larger amount than was agreed, he cannot escape his liability to an innocent holder by pleading that fact. The rule is the same when a party accepts a blank draft.
- 9. Avoiding Liability.—An indorser can avoid liability by writing the words "without recourse," or, "without recourse to me." He can also specify what use is to be made of the funds when the paper is made, as for instance: "Pay Irving Taylor, or order, for credit of my account."
- 10. After Maturity.—Paper can be transferred after maturity and usually no difficulty will arise over it, but the maker of the note may make any defense against the assignee possible had the note not been transferred.
- 11. An Innocent Holder.—An innocent holder of paper, having paid value for it before maturity, can hold both the maker and indorser responsible for payment.
- 12. General Rule.—In the transfer of commercial paper the indorser is held equally responsible for payment with the maker, and it is a safe rule to require the indorsement of the party who holds the paper before accepting it. An indorser who has paid a note can afterwards sell it. In the case of accommodation paper, however, when the payee has once paid it the paper is canceled, and cannot again be transferred so as to give the holder a right of action against any one, except the party who paid and then transferred it.

DEMAND OF PAYMENT.

- 1. Time and Place.—Demand should always be made at the proper time and place. If the name of a bank or any other place is mentioned in the paper, it should be made there.
- 2. Insolvency.—If the debtor is bankrupt, it is no reason why a demand should not be made on him.

- 3. In Person. Demand must be made in person, and it cannot legally be made by mail.
- 4. Possession of Paper.—The party making the demand must have possession of the paper, for the debtor can insist on having it delivered to him when paid.
- 5. Lost Paper.—In case the paper is lost, a bond of indemnity must be made and tendered to the debtor, as protection an case it is ever found.
- 6. Refused Payment.—If demand is legally made and it is refused, the paper must be protested and the proper partication. This is usually the work of a notary public.

THE CREDIT SYSTEM—ADVANTAGES AND DISADVANTAGES.

- 7. There are many good reasons why people should pay cash for everything purchased. Hopeful people will always buy more freely if they can get it on credit, and are never anxious for pay day to come around.
- 2. Remember that those who sell on credit must charge from 10 to 15 per cent. more for goods in order to cover the interest and risks. It has been found that from 7 to 10 per cent. of trusted out accounts become worthless.
- 3. It is always uncertain which of the trusted persons will fail to pay his account, and consequently all persons buying on credit have to share the extra prices, in order to meet the losses which all business men sustain that do a credit business.
- 4. Remember, the man who can pay cash for goods, or whatever purchases he may make, can always secure a better bargain than the man who buys on credit. It therefore would be a great saving if every one could manage, by rigid economy, if necessary, to pay cash for everything he buys.
- 5. Persons who buy real estate, or merchants who buy large quantities of goods, may often find it necessary to buy on credit. Many of our wealthiest farmers and business men made their money largely in having the benefit of credit, but, at the same time, if cash could be paid for everything purchased, whether real estate or other articles, it would be a great saving to the purchaser.
- 6. Keep your word as good as a bank and you will always have credit when you desire it, and friends when you need



"HIS BURDEN OF DEBT HE BORE TO THE GRAVE."

HOW TO COLLECT DERTS.

While most debts are paid voluntarily, yet many men have been ruined by the failures of others to pay their debts. This suggests caution on the part of all who give credit or make loans. The earnings of a life time may soon be swallowed up by unworthy and dishonest creditors.

1. Settlement. It is, however, necessary to extend credit to others, and with the greatest of precaution those who can not or will not pay their debts sometimes become our debtors. When this is the case the best method is to attempt an adjustment by mutual agreement. If your debtor is honest and still by some unfortunate circumstance is unable to pay his debts, it is best to treat him with respect and kindness. The law of kindness has affected the payment of many debts where legal measures would have wholly failed. Every effort possible should be made to effect a settlement by mutual agreement. Rather suffer and lose what may belong to you than seek an adjustment by law.

- 2. Expense.—Litigation is always expensive and also uncertain. Avoid it if possible. Settle without consulting a lawyer if possible. Go to law as a last resort.
- 3. Collection.—If it is impossible for you to secure a settlement, then, if the case demands, it may be necessary to place the account with a lawyer for collection.
- 4. Arrest.—The arrest of the debtor can only be made to secure the person of the debtor (or defendant) while the suit for debt is pending, or to force him to give security for his appearance after judgment, but in some States no arrests are allowed, except in criminal cases.
- 5. Attachment.—This is a writ issued by the Justice of the Peace or Judge, or some other officer having jurisdiction, commanding the sheriff or constable to attach the property of the debtor, to satisfy the demands of the creditor. This writ may be issued at the beginning or during the suit. In some States, Alabama, Illinois, Louisiana, Mississippi, Missouri and others, the debtor may retain possession of the property and give a bond as a guaranty that the property will be held for the debt in case he is defeated in the suit. All attachments lose their validity in case the debtor (or defendant) wins the suit.
- 6. Judgment and Execution.—A suit is ended by the courts giving a judgment, either in favor of the debtor or the creditor. If the judgment is in favor of the plaintiff and the defendant refuses to pay the amount of the judgment, an execution is issued by the court which commands the sheriff to take sufficient property of the defendant, if it can be found, to satisfy the judgment. The sheriff may also seize the person of the defendant and imprison him until he pays judgment or the same is discharged by judicial decision of insolvency. Real estate, however, cannot be sold on execution in some States, unless a jury should find that the profits in rents, etc., will not pay the judgment within the limit of seven years, or some other time fixed by law.
- 7. Garnishment. After judgment has been rendered, the money or goods due the defendant, if in the hands of a third person, may be attached to pay the plaintiff. The person in whose hands the money or goods attached are, is known in law as the garnishee or trustee.

HOW TO OBTAIN WEALTH.

It matters not what a man's income is, reckless extravagance and waste will sooner or later bring him to ruin. The average young man of today when he begins to earn is soon inclined to habits of extravagance and wastefulness. The five, ten or fifteen cents a day that is squandered, while a mere trifle apparently, if saved, would in a few years amount to thousands of dollars and go far towards establishing the foundation of a future career. In order to acquire the dollars one must take care of the dimes and nickels. It is not what a man earns but what he saves that makes him rich. John Jacob Astor said that the saving of the first thousand dollars cost him the hardest struggle. It is the duty of every young man to begin to save from the moment he commences to earn, be it ever so little. This habit will not only aid in acquiring wealth, but will give a fitness for larger duties. He who is not able to manage a small income is not competent to have charge of a larger one.

The way to make money is to save it. Always remember and practice the maxim, "A dollar saved, a dollar earned."

A small sum of money saved daily for fifty years will grow at the following rate:

Daily Savings.

One Cent \$ 950	Fifty Cents\$47,520			
Ten Cents 9,504	Sixty Cents 57.024			
Twenty Cents 19,006	Seventy Cents 66,528			
Thirty Cents 28,515	Eighty Cents 76,032			
Forty Cents 38,015	Ninety Cents 85.537			
One Dollar\$05,040				

HOW TO MAKE CHANGE QUICKLY.

- 1. Consider the amount of the purchase as money already counted out; for example, if the purchase amounts to 46 cents, and you are handed a \$2.00 bill in payment, count out 4 cents to make it 50 cents, then count out the other \$1.50.
- 2. Should the purchase amount to \$2.54, and you are handed \$10.00, count out 46 cents to make it \$3.00, then count out even dollars to make the \$10.00, and your change is correct.
- 3. Always count your change after receiving, and see that it is correct.



⁶⁶MY SON, YOU SHALL HAVE A HOME WHILE I LIVE. BUT I CANNOT DEED YOU MY FARM; IT IS ALL I HAVE TO SUPPORT ME IN MY OLD AGE."

DO NOT GIVE AWAY YOUR PROPERTY IN OLD AGE.

Many persons, as they advance in years, make the fatal mistake of giving away their property to children and then depend upon them for support.

How many old persons have gone to their graves brokennearted and suffering for the necessaries of life, because they desired to help their children, and gave them their property.

If the weight of years becomes heavy and there is plenty of property, a portion may be safely divided among the children, but the major portion should always be held and controlled directly or indirectly by the old couple.

1. It will insure good care and plenty of the necessaries of life

2. The devotion and love of children will never grow cold while there is something in store for them.

It was the writer's experience in his boyhood to board in a family where the father in his old age had bequeathed his entire property to his children. When the same was divided between them their aged father became a burden, and he was sent from daughter to son, as they had all obligated themselves to care in turn for their aged father. But he never entered the home of a son or daughter, where he was a welcome guest. In the family, where the writer boarded, where the aged father was then, if there was a cup of coffee short in the morning, it was the old man's cup that was not filled; if meat or other food was short, it was the old man's plate that indicated the shortage; if the pie was somewhat deficient, it was the old man's piece that was cut in two, and he was compelled to sleep in a cold garret at night, alone and deserted, and when the broken-hearted old man passed away, no doubt every child felt delight instead of sorrow in his heart.

Every man should make a will in favor of his wife, so that in her old age she shall not become dependent.

TEACHING BUSINESS TO WIVES AND DAUGHTERS.

Women are too frequently ridiculed because of their ignorance of business matters. How can they understand business and business methods, if they have never had an opportunity to learn and transact business? Every husband should teach his wife some of the more important ways of business. He should interest her in his financial affairs, and show her some of the business forms and business documents which form a part of his business transactions. It is a great advantage for a wife to be familiar with her husband's business, as she is liable to be called upon at any time to settle his estate.

How many burdens are annually thrust upon widows, and at what a disadvantage they are in managing the business affairs of the family! Then why not make the path straighter and smoother by beginning now, by teaching your wives and daughters practical business methods?

For family instruction we would suggest the following rules:

I. Assist your wife or daughter in drawing up notes, and

teach her not only the correct form, but give her some of the laws bearing upon the legal relations of both debtor and creditor.

- 2. Make various indorsements upon the notes which have been thus written for copy. Write a note for each indorsement and explain it. This is a very easy and simple lesson and can be mastered in a very few evenings.
- 3. Teach the forms of receipts. Write receipts for rent, for money paid on account, for money to be paid a third party, etc. This will be found a very interesting exercise.
- 4. Checks and drafts will form the same interesting exercise.
- 5. The next step will be to secure a few blank forms of notes, checks, drafts, deeds, leases, etc., and any husband will be surprised what progress his wife will make in a few lessons in filling out these business documents.
- 6. If you carry out this plan your wife or daughter will become interested in your business, and will understand the different forms of paper and will soon be able to give you considerable assistance as well as safe counsel.

HOW TO TEACH BUSINESS TO CHILDREN.

Give your sons and daughters some familiarity with the customs of the business world. Let them learn while young how to transact the ordinary forms of business. It is probably best to give them opportunities for earning a little money and try to teach them its value in disposing of same.

It is best to buy 'hem a little account book, and make them have an account of all the money they receive, and the disposition they make of it. Teach them how to make such entries, and always insist upon their keeping a correct record of all the money they receive, and upon giving an account of the money they pay out, always showing a correct, itemized account.

In this way they may receive a degree of benefit which will insure their business success during life. This learned early in life will always produce an abiding and substantial benefit, and no doubt give birth to many practical ideas of business.

POINTS OF LAW AND LEGAL FORMS.

It must be admitted that legal and business forms, together with the important points of law on these subjects, are essential and should be in the reach of all. A knowledge of these rules and principles would prevent many mistakes and losses. The following pages contain all the principal and important forms ordinarily in use in business.

AFFIDAVITS.

An affidavit is an oath or affirmation made in writing, sworn to or affirmed, before an officer empowered to administer the same. Affidavits are not testimony in courts of law, because the makers are not cross-examined; but a false affiant may be punished for perjury.

The following is a common form, and with certain modifications can be made to apply to almost any case:

Common Form of Affidavit.

FTATE OF ILLINOIS, }ss.

John Jones being duly sworn on his oath states that he is well acquainted with the handwriting of Daniel Seitz, one of the subscribing witnesses to the deed hereto attached; that affiant has frequently seen him write and knows his signature; that he believes that the name of the said Daniel Seitz, signed in the said deed, is in the handwriting of the said Daniel Seitz, and further affiant says not.

A Form attached to a Declaration of any kind.

STATE OF ILLINOIS. Ss. Chicago, Nov. 10, 1901.

The above named John Saylor personally appeared before me and made oath that the following declaration by him subscribed is true.

L. B. LAWSON, Justice of the Peace.



HOW TO SETTLE DIFFICULTIES BY ARBITRATION.

Arbitration is an agreement by parties who have a controversy or difference to submit the question to the decision of a third party instead of appealing to law.

Arbitration is one of the highest courts for the settlement of personal differences, and if people would only learn more of its benefits and advantages, lawyers by the thousands would not thrive and fatten upon the earnings of those who could make better use of their money.

When the matters in difference are simply those of fact, it is often more satisfactory to submit them to the decision of mutual friends, each contending party choosing one, and the two arbitrators thus chosen, choosing the third, and the three parties thus chosen constituting the court.

The decision of the arbitrators is called an award.

The award should be specific and distinct, containing the decision of the arbitrators in as clear and concise language as possible.

Form of Submission to Arbitration.

KNOW ALL MEN. That we, the undersigned, hereby mutually agree to submit all questions and claims between us (or a specific claim or question) to the determination and award of (here name the arbitrators), whose decision and award shall be final and binding on us. In case of disagreement, the decision and award of a majority of said arbitrators shall be final and conclusive. The said arbitrators shall make their award in writing on or before July 19, 1902.

Done at Aurora, Ill., June 4, 1902. JOHN GLOVER, Witnesses.

THOMAS ELLLE, J. C. TETER-

Form of Arbitrator's Oath.

The following oath should be taken by the persons chosen to act as arbitrators or referees before entering upon the examination of the matters in dispute: We, the undersigned arbitrators, appointed by and tetween Henry Smith and Richard Brown, do swear fairly and faithfully to hear and examine the matters in controversy between said Henry Smith and Richard Brown, and to make a just award, according to the best of our understanding.

Sworn to this 26th day of May, A. D.
1901, before me,
D. B. GIVELEE,
Justice of the Peace.

P. D. CRIMMINS, J. O. EVERETT, O. M. POWERS.

Oath

To be administered to a witness by the arbitrators: You do solemnly swear, that the evidence you shall give to the arbitrators here present in a certain controversy submitted to them by and between Henry Smith and Richard Brown, shall be the truth, and nothing but the truth, so help you God.

ARBITRATION PREFERABLE TO LITIGATION.

Arbitration is always preferable to litigation. It is not only the easiest, quickest and cheapest way to settle disagreements, but saves much vexation and subsequent dissension. Were individuals, corporations and nations to arrange their disputes by arbitration, instead of resorting to litigation and warfare, the people would be saved millions of treasure, and the world spared much shedding of blood. A peaceful settlement of difficulties is usually followed by prosperity, while "going to law" or war usually results in loss and suffering to both contestants. Indeed, litigation and warfare are twin relics of the dark ages, and so long as they continue in vogue we may look in vain for harbingers of the promised millennium. Of all classes, farmers should, so far as possible, avoid entering into litigation; for whether they win or lose, they are proverbially worsted, the lawyers usually taking the cream, and leaving only the skim-milk for the winning contestant. Truly, there is neither glory nor honor, profit nor pleasure in litigation, and the less people who profess to live "on the square," and according to the Commandments, have to do therewith, the better it will be for both their present and future peace and prosperity. Even in the most aggravating case of trespass, and the like, no good citizen should resort to the law, until all amicable attempts at settlement have failed. Indeed, and finally, whatever may be the provocation, don't get mad and impulsively prosecute your neighbor, but keep your temper.



HON. WILLIAM MCKINLEY. THIRD MARTYRED PRESIDENT.

HOW TO DO BUSINESS WITH AN AGENT.

- 1. Agency.—Agency is one of the most important retations which exist in the transaction of the ordinary business affairs of life.
- 2. Implied Agency.—Agency may be implied from previous dealing and transaction between the parties. If the principal has held a person out as an agent he will be bound by his acts, even though as a matter of fact the agent had no authority to represent him.
- 3. Agents.—An agent is defined to be one who is authorized to represent another, who is called the principal, and when so authorized acts for and in the place and stead of the principal. A man may do through his agent whatever he may law fully do for himself. Persons not of age, married women and aliens

act to be done.

may act as agents for others. Factors, brokers, attorneys, etc. are but agents in a business sense. The acts of the agent, if exercised within the powers delegated, bind the principal and become the latter's acts and deeds, but the agent's authority may be revoked by the principal at any time. Authority given to two persons must be executed by both to be binding on the principal.

- 4. Special Agent.—A special agent is one authorized to do one or more special things in pursuance of particular instructions, or within restrictions necessarily implied from the
- 5. General Agent.—A general agent is one authorized to transact all his principal's business, or all his business of some particular kind, or at some particular place. If an agency is proved without its extent being shown it will be presumed to be a general agency. The acts of a general agent will bind the principal, even though he had no authority to do them, provided he acts in the general scope of the business which he was authorized to transact.
- 6. Authority of Agent.—If a special agent exceeds his authority, the principal is not bound, but if a general agent exceeds his authority the principal is bound, provided the agent acted within the ordinary and usual scope of the business he was authorized to transact, and the party dealing with him did not know he was exceeding his authority.
- 7. Authority, How Given.—The authority of an agent may be constituted in three ways: By deed under seal, by writing, or by mere word. Express authority is given to an agent by what is called a power of attorney. If the authority is to execute a writing under seal and acknowledged, the power of attorney must be likewise under seal and acknowledged. An agent to sell land, or to do any important business, where he is required to make contracts, draw or sign notes, drafts of checks, should be appointed by "power of attorney."
- 8. Agent's Acts Ratified.—The acts or contracts of an agent made beyond the scope of his authority may be ratified by the principal, and when so ratified are binding on the latter.
- 9. Agent's Responsibility.—An agent concealing his principal is kimacle responsible and if acting fraudulently or

deceitfully is himself responsible to third parties. He cannot appoint a substitute or delegate his authority to another, without consent of his principal. If an agent embezzles his principal's property it may be reclaimed if it can be identified or distinctly traced.

- 10. Agent Restricted.—An agent employed to sell property cannot buy it himself, or if employed to purchase property, cannot buy from himself.
- Principal's Liablity.—The principal is liable to the third person for the negligence or unskillfulness of the agent, when he is acting in the fulfillment of the agency business. The principal is liable for all acts of his agent within the scope of his agency, but money paid by an agent can be recovered by the principal, if it has been paid by mistake. The knowledge of the agent relating to the business of the agency is binding upon the principal, and notice to an agent as to matters relating to the agency is notice to the principal.
- agent may be determined: First, by the express revocation thereof by the principal. Second, by renunciation of such power by the agent. Third, by the death of the principal, which also revokes the agency. Fourth, by the expiration of the time within which the agent was to perform the acts which were to be done by him, or by him, having completed and fully performed the commission and closed the business which he was to transact. Fifth, by the sale of the subject matter of the agency.
- 13. Revocation Takes Effect When.—A revocation of authority takes effect, so far as the agent is concerned, when he receives notice thereof; so far as third persons are concerned, when they receive notice of such revocation. Personal notice or its equivalent is required, and is sufficient to those who have dealt with the agent. Advertising the fact would be sufficient as to all others, Without a sufficient notice of the revocation, a contract made in good faith with the agent after revocation will bind the principal the same as before.
- 14. Caution.—Persons dealing with agents who are strangers should be very careful to ascertain that the agent has authority to transact the business in hand. In all trans-

actions in regard to real estate the authority of the agent should be in writing, signed by the owner of the property, in order to be binding upon him. In all cases of doubt as to the authority of an agent or the extent of his authority, it would be wise to require of the agent a written proof of his agency and the extent of his authority.

15. Power of Attorney.—To delegate to an agent the power to sign notes, checks, and other legal documents, as well as to transact any business where such documents are necessary, is called power of attorney—that is, the power to be attorney for you. Such power or authority should be given in writing. It should be witnessed to and should state clearly what the attorney has power to do.

Power of Attorney, General Form.

KNOW ALL MEN BY THESE PRESENTS, That I, James L. Binton, of Naperville, County of Du Page, and State of Illinois, have made, constituted and appointed, and BY THESE PRESENTS do make, constitute and appoint, Chas. A. Lerch true and lawful attorney for me and in my name, place and stead, [here state the purpose for which the power is given], giving and granting unto my said attorney full power and authority to do and perform all and every act and thing whatsoever, requisite and necessary to be done in and about the premises, as fully, to all intents and purposes, as I might or could do if personally present, with all power of substitution and revocation, hereby ratifying and confirming all that my said attorney or his substitute shall lawfully do or cause to be done by virtue thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the 2nd day of January, one thousand nine hundred.

Signed, Sealed and Delivered in Presence of JAMES L. BINTON. (Seal.)

To be properly acknowledged before an officer, the same as a deed. according to the law of the State.

Proxy or Power of Attorney to Vote.

Witness my hand and seal at Aurora, Illinois, this 26th day of June, A. D. 1900.

E. R. ZEMMER. (Seal.)

N. B. A seal is an impression, or writing (seal), placed at the right of signature confirming authority of same.

Revoking of Power of Attorney.

Whereas, I, Sylvester Jones of Aurora, County of Kane, and State of Illinois, did on the tenth day of June, 1901, by my letter or power of attorney appoint John C. Cook of Chicago my true and lawful attorney, for me and in my name to [here state in precise language what he was authorized to do] as by the said power of attorney, reference thereunt being had, will fully appear;

Therefore, know all men by these presents, That I, Sylvester Jones, aforesaid, have revoked and recalled the said letter of attorney, and by these presents do revoke and recall all power and authority thereby given to the said John C. Cook.

Given this tenth day of October, 1902. Signed and sealed in presence SYLVESTER JONES. (Seal.)

- 16. Brokers are agents who buy and sell real estate. notes, stock, bonds, mortgages, etc., or who make contracts for their principals and in their names. They are often employed to transact business or to negotiate bargains between different individuals. Their attention being given to one class of business. they acquire a knowledge and skill that an average merchant does not possess. It is often advantageous for large firms to employ brokers to buy their raw material. In our large cities brokers in anything and everything that is bought and sold in large quantities are extensively employed.
- 17. Commission Merchants are agents in large cities who sell goods on commission for fruit raisers, farmers, and manuafacturers.

APPRENTICESHIP.

- 1. Definition.—This is a contract by which one person who understands some art, trade, or business, and who is called the master, undertakes to teach the same to another person, a minor, who is called an apprentice. The latter is bound to serve the master during the period fixed by the contract in such art, trade, or business. This method of binding minors out for the purpose of learning different trades and callings was formerly very common, but late years, and particularly in the United States, it has fallen into disuse, and is a form of contract very seldom used.
- 2. Duties of the Master .- To instruct the apprentice in the art or trade which he has undertaken to teach him, It is his duty also to watch over his conduct, giving him prucent advice, setting him a good example, and virtually exer-

cising over him the rights, duties, and obligations of the parent. He had no right to dismiss the apprentice except by consent of all the parties, or to remove him from the State unless such removal was authorized in the contract.

3. Duties of Apprentice.—He is bound to obey his master in all lawful commands, to take care of his property, to endeavor to the best of his ability to learn the trade, business, or occupation to which he was apprenticed, and to perform all the covenants contained in his contract. He was originally required to assent to the contract by signing the same.

Form.

This indenture made this 14th day of July, 1901, between John Smith of the city of Naperville, County of Du Page, and State of Illinois, party of the first part, with whom joins George Smith, minor, son of said John Smith, for the purpose of showing his assent to this article of agreement, and Charles Jones of the same place, party of the second part, Witnesseth: That the said party of the first part does hereby bind and apprentice unto the party of the second part the said George Smith, age 10 years, for and during and until the said George Smith shall attain to the age of sixteen years to learn the art and trade of a barber; and the said party of the first part hereby covenants and agrees that the said George Smith shall faithfully serve the said party of the second part and that he shall obey all the lawful commands of the said party of the second part and preserve and care for his property and use all diligence to learn the said art and trade of a barber for and during the term aforesaid; that he will not use intoxicating liquors or tobacco in any of its forms during the said term, and shall in all things properly conduct himself. And the said party of the second part hereby agrees that he will teach and instruct the said George Smith in said art and trade; that he will during the term of his apprenticeship furnish him with board and lodging and suitable clothing, washing, medicine, and other necessaries suitable to the condition of life of said minor; that he will teach or cause to be taught to the said George Smith reading and writing and the ground rules of arithmetic; and also that he will at the expiration of said term give to said apprentice a new Bible, two complete new suits of wearing apparel suitable to his condition in life and twenty dollars in money. new Bible, two complete new suits of wearing apparel suitable to his condition in life and twenty dollars in money.

In testimony whereof the parties hereto have hereunto set their hands and seals the day and year above written; and the said George Smith has signed these premises for the purpose of showing his assent thereto.

JOHN SMITH. (Seal.) CHARLES JONES. (Seal.) GEORGE SMITH.

4. Dissolution.—The articles of apprenticeship may be canceled by the mutual consent and agreement of all the parties. The better way would be to have such cancellation made in writing. Any form of contract clearly showing the intentions of the parties to dissolve the articles of agreement, and signed by the parties to the original contract, would be sufficient. The contract of dissolution might well be written on the back of original contract.

AGREEMENTS AND CONTRACTS.

- A contract is a mutual agreement between two competent parties for a valuable consideration to do or not to do a particular thing.
- 2. It must have, 1. Parties; 2. Subject Matter; 3. Consideration; 4. Assent of the parties. There cannot be a contract when any of these are wanting.



IT TAKES TWO TO MAKE A CONTRACT.

HOW TO WRITE A CONTRACT.

- I. The parties to a contract are taken in the order in which they are written and referred to as "the party of the first part," "the party of the second part," without repeating their names. It matters not which name is written first.
- 2. After writing the date, names of the parties and their places of residence, state fully all that the first party agrees to do, and then state all that the second party agrees to do.
- 3. Next state the penalties or forfeitures in case either party does not faithfully and fully perform, or offer to perform, his part of the agreement.
- 4. Finally, the closing clause, the signatures and seals, the signatures of witnesses are written. (A seal is simply the mark of a pen around the word "seal," written after the signature.)
- 5. No particular form of legal language is necessary. Use your own words and state in a plain way just what you want done. Any one who can write a letter and express his desire in an intelligent manner can write a contract.
- 6. Errors in grammar or spelling do not affect the legality of the agreement.

- 7. If the language should be obscure on certain points, the "court" will always interpret the intent of the parties, when they entered into the agreement, provided the intent can be gathered from the terms of the instrument itself.
- 8. When an agreement is written it must all be in writing. It cannot be partly written and partly oral.

THE VITAL PART OF A CONTRACT-CONSIDERATION.

- I. Definition.—A consideration is the thing which induces parties to make a contract. It is the substantial cause or reason moving parties to enter into an agreement.
- 2. A Sufficient Consideration.—The law does not require that the consideration should be a good or bad bargain. As long as something is done or suffered by either party, the consideration is good. The smallest consideration is sufficient to make it legal. The value of the consideration is unimportant. For instance: \$10,000 worth of property can be sold for \$1.
- 3. Promise of Marriage.—If a man promises a woman any certain sum of money if she would agree to marry him, he can be made to fulfill his promise, and the court will hold that the promise of marriage was a sufficient consideration for the money. Marriage contracts may be entered into under age.
- 4. A Valuable Consideration.—A valuable consideration is one which is equal to money or may be changed into money.
- 5. A Good Consideration.—A good consideration is one which is based upon love, gratitude or esteem, or blood relationship. But in order to make a good consideration legal, the agreement has to be performed by one or both parties. For instance: If a man should promise to give a lady \$500 because he loved her, it could not be collected, but if the money was once paid to the woman it could not be recovered.
- 6. Gratuitous Consideration.—A gratuitous consideration is a consideration where something is done or money promised on account of some affection or charity, and like a good consideration the act must be performed in order to hold the party. For instance: If a father gives his son a note

n account of his affection for him, the son cannot force the sather to pay it; so also if a person subscribes for a church or charitable society he cannot be compelled to pay it, unless the church or charitable society can show that it depended upon that money when it entered upon some contract, or assumed some obligation on account of it.

7. Immoral Consideration.—All considerations which are

immoral are consequently illegal.

8. Impossible Consideration.—If a man should promise to cross the ocean in one day, or walk from Philadelphia to New York in two hours or any consideration of such an impossible character, is illegal and void.

THE LAW GOVERNING ALL KINDS OF CONTRACTS.

- 1. An alteration of a contract in a material part, after its execution, renders it void.
- 2. A contract made by a minor, a lunatic, or an idiot is not binding upon him, yet he can hold the party with whom he contracts, to all the conditions of the contract.
- 3. A fraudulent contract may be binding on the party guilty of fraud, although not laying any obligation on the part of the party acting in good faith.
- 4. A contract for the sale or purchase of personal property over a certain amount—ranging from \$30 to \$100 in the different States—must be in writing.
- 5. A contract which cannot be performed within a year must be in writing.
- 6. If no time of payment is stated in the contract, payment must be made on the delivery of the goods.
- 7. A contract totally restraining the exercise of a man's trade or profession is void, but one restraining him in any particular place is not void.
- 8. An offer or proposal, which includes the essential parts of a contract, becomes a contract as soon as accepted.
- 9. A contract required by law to be in writing cannot be dissolved by verbal agreement.
- to. A contract cannot be partly written and partly verbal. It must be wholly written or wholly verbal.

TIME IS MONEY, BUT MONEY IS NOT TIME.

- 11. A contract cannot be rescinded except by consent of both parties.
 - 12. An oral contract must be proved by evidence.
- 13. A contract binding in the place where it is made is binding everywhere.
- 14. Each party to an agreement or contract should retain a copy.
- 15. While signatures or contracts written with a pencil are good in law, it is always safer to write them in ink.



JUSTICE.

CONTRACTS THAT ARE NOT LAWFUL.

- I. A contract to commit a breach of peace.
- 2. Concracts made on Sunday, are, in most of the States, now held to be legal and binding.
 - 3. An agreement for immoral purposes.
 - 4. All agreements in which there is fraud.
 - 5. An agreement made by threats or violence.
 - 6. Wagers or bets cannot be collected by law.
 - 7. More than legal interest cannot be collected.
 - 8. If any part of a contract is illegal, the whole is illegal.
- 9. A contract with an intoxicated person, lunatic, or minor,
- 10. A contract in violation of a statute in the State in which it is made.

- 11. An agreement to prevent competition on a sale under an execution.
- 12. An agreement to prohibit the carrying on of a trade throughout the State.
- 13. A contract impossible in its nature; such as crossing the ocean in one day, is void.
- 14. Where consent to an agreement is given by mistake, it cannot become a contract.
- 15. The right to vote or hold office, etc., cannot be sold by contract.
- 16. Contract without a consideration; such as a promise to make a gift, cannot be enforced.
- 17. Two or more persons cannot intentionally make a contract to the injury of a third person.
- 18. Contracts for concealing felony or violating public trust, for bribery and extortion, are prohibited.
- 19. Useless things cannot become the subject of a contract; such as agreeing not to go out of the house for a month.
- 20. Money borrowed for the purpose of betting, the lender knowing it to be for that purpose, cannot be collected.
- 21. A verbal release without payment or satisfaction for the debt is not good. Release must be under seal.
- 22. If there are two parts to a contract, and one conflicts with the other, the first part holds good in preference to the last.
- 23. Contracts in which there is misrepresentation or concealment of material facts cannot be enforced. It is fraud to conceal a fraud.
- 24. If a thing contracted for was not in existence at the time of making the contract, such as buying a horse and not knowing that he was dead at the time, is not good.
- 25. If a person agrees to serve as a laborer or clerk, he cannot be compelled to fulfill his agreement; damages, however, can be recovered for a failure to perform.
- 26. An agreement with a thief to drop a criminal prosecution, by his bringing back the goods and paying all damages, is not good, and will be no bar to a future prosecution.
- 27. Guardians, Trustees, Executors, Administrators or Attorneys cannot take advantage of those for whom they act by becoming parties to contracts in which their wards are interested.

DAMAGES FOR VIOLATION OF CONTRACT.

- It is the very essence of a contract that some penalty attaches to its violation. Otherwise it is no contract at all. Herein an agreement resembles a law. A statute which provides no penalties for the law-breaker is merely the expression of a wish, or the giving of advice. The contract that binds must be binding on both parties. This element of mutual obligation is also the very essence of a contract.
- 2. Where no actual loss has been sustained by the violation of a contract, the plaintiff is entitled to nominal damages only.
- 3. Actual expenditures under the contract may be recovered.
- 4. Expected profits or speculations in real property cannot be recovered in case of a violation of contract.
- 5. Failure to convey real estate according to covenant entitles plaintiff to the value of the land at the time the transfer was to be made.
- 6. Failure to deliver property at the time and place named in the contract entitles the plaintiff to the value of the property at the time and place fixed for deliverance.
- 7. In loss of goods by common carrier the plaintiff is entitled to the value of the goods where they were to be delivered, less the freight on such goods.



A Broken Contract.

Parent:—You have violated my command.

Small Boy:—I should think you would be ashamed to strike me when
my back is turned toward you.

8. If a party contracts to employ another for a certain time, at a specified compensation, and discharges him, without cause, before the expiration of time, the plaintiff can obtain judgment

for full amount of wages for the whole time, provided he does not engage in any other business.

- 9. In Illinois the penalty for a railroad for the killing of a passenger is fixed by statute at \$5,000, and the only question that is allowed to arise in such a case is whether the railroad company was at all responsible for the disaster.
- 10. To prevent lawsuits and disputes the amount of damages for the violation of contracts is sometimes fixed by inserting in the contract the following clause:

And it is further agreed that the party that shall fail to perform this agreement on his part shall pay to the other the full sum of [here state amount], as liquidated, fixed, and settled charges.

General Form of Agreement.

This agreement, made the tenth day of June, 19—, between Clarence Ranck of Aurora, County of Kane, State of Illinois, of the first part, and Charles Vandersall of Columbus, Ohio, of the second part: Witnesseth, that the said Clarence Ranck, in consideration of the agreement of the party of the second part hereinafter contained, contracts and agrees to and with the said Charles Vandersall, that there insert the agreement of Clarence Ranck]. And the said Charles Vandersall in consideration of the fulfillment of this contract on the part of the party of the first part, contracts and agrees with the said Clarence Ranck [here insert the agreement on the part of Charles Vandersall]. In case of fallure of agreement by either of the parties hereto it is hereby stipulated and agreed that the party so falling shall pay to the other Two Hundred Dollars as fixed and settled damages.

In witness whereof, we have hereunto set our hands and seals, the say and year first above mentioned.

Signed and sealed in presence of John Rutter.

CLARENCE RANCK. CHARLES VANDERSALL.

Contract for Sale of Land.

This agreement, made this first day of June, A. D. 1901, between John Brown, of the City of Dunkirk, in the State of New York, party of the first part, and Norman C. Stull, of the City of Buffalo, of the same State, party of the second part, Witnesseth, That if the said party same State, party of the second part, Witnesseth, That if the said party of the second part shall make the payments and perform the covenants hereinafter mentioned on his part the said party of the first part hereby agrees to convey and assure to the said party of the second part in fee simple, clear of all incumbrances whatsoever, by a good and sufficient warranty deed the following described premises to wit: [Here describe property to be conveyed], and the said party of the second part covenants and agrees to pay to the said party of the first part the sum of two thousand (\$2,000.) dollars as follows:

Five hundred (\$500) dollars cash in hand paid, the receipt whereof is hereby acknowledged, balance on March 1, 1902, with interest at the rate of 6 per cent. per annum, payable annually after the date hereof, and all taxes and assessments legally levided or imposed upon said land subsequent to the year 1609. A complete abstract of title brought down to date to be furnished by said party of the first part on or before thirty days from the date bereof. In case title, on examination, should

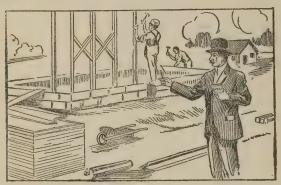
prove to be defective, then the said party of the first part agrees to perfect the same within a reasonable time, and in case of failure so to do, or in case said title cannot be perfected, the cash paid hereon shall be refunded and this contract shall become null and void. Deed to be delivered March 1, 1901, deferred payments to be secured by note and first mortgage by the party of the second part on the premises hereby sold. This contract shall extend to, and be obligatory upon, the heirs, administrators, executors, and assigns of the respective parties.

In testimony whereof the parties have hereunto set their hands and seals the day and vear first shove written.

geals the day and year first above written.

JOHN BROWN, (Seal.) (Signed) (Seal.) NORMAN C. STULL.

Witness: Richard Peck.



An Agreement to Build a House.

This agreement, made this 16th day of July, 1901, between John Reid, of Lisle, Illinois, party of the first part, and C. Cooper, of Naperville, Illinois, party of the second part, Witnesseth: That the said party of the second part for and in consideration of the sum of fifteen hundred (\$1,500) dollars, to be paid as hereinafter stated, covenants and agrees with the party of the first part that he will within the space of six manner erect, build, and finish on Lot Two (2) in Block Three (3) of Park Addition to Naperville, Illinois, a dwelling house in accordance with the plans and specifications hereunto annexed and made a part hereof.

It is further agreed that the party of the first part shall at all times furnish to the said party of the second part all such stone, brick, lime, cement, lumber, and such other materials as may be required by him for the construction of said house, and such lumber and materials to be delivered upon said lot from time to time as required by said party of the second part. Said party of the first part agrees to pay the said party of the second part the sum of five hundred (\$500) dollars when the building is enclosed and the roof is on. Five hundred (\$500) dollars when the house is plastered and the chimneys erected, and the remainder upon the completion of the contract.

In witness whereof the parties have hereunto set their hands and

seals the day and year first above written.

(Signed) JOHN REID. (Seal.) C. COOPER. (Seal.)



A Contract for Hiring a Farm Hand.

KNOW ALL MEN BY THESE PRESENTS:

That Fred J. Dolan agrees to work faithfully for E. E. Hull. as general laborer on his farm, and to do any work that he may be called upon to do in connection therewith, in the township of Freedom, County of La Salle, and State of Illinois, for the period of one year, beginning the first day of March next, 1901, for the sum of Twenty Dollars per month.

In consideration of the services to be performed, the said E. E. Hull agrees to pay Fred J. Dolan, Twenty Dollars per month.
IN WITNESS WHEREOF, the said parties have hereunto set their hands this first day of January, 1901.
FRED J. DOLAN. E. E. HULL.

Agreement for the Hiring of a Clerk.

THIS AGREEMENT, made this twenty-eighth day of June, one thousand sine hundred and one, between John Smith, of the Town of Naperville, in the County of Du Page, and State of Illinois, of the first part, and Richard Brown, of the City of Chicago, in the County of Cook, State of Illinois, of the second part, Witnesseth:

That the said John Smith has agreed to enter the service of the said Richard Brown as clerk, and covenants and agrees to and with the said Richard Brown, that he will faithfully, honestly, and diligently apply himself and perform the duties of a clerk in the store of the said Richard Brown, and faithfully obey all the reasonable wishes and commands of the said Richard Brown, for and during the space of one year from the thirtieth day of May next for the compensation of Six Hundred Dollars (\$600) per annum, payable monthly.

And the said Richard Brown covenants with the said John Smith

that he will receive him as his clerk for the term of one year aforesaid and will pay him for his services as such clerk the sum of Six Hundred

Dollars (\$600) annually, in monthly payments.

In witness whereof, we have hereunto set our hands and seals, this

twenty-eighth day of June, A. D. 1901.

JOHN SMITH. RICHARD BROWN. (Seal.) JOHN H. WAGNER.

A Contract for Laying Tile or Building Fence.

This agreement, made this first day of July, 1901, between W. J. Shaw, of the first part, and A. N. Jenkins, of the second part, Witnesseth: That the said party of the first part agrees to lay upon the farm of the said party of the second part, of Naperville Township, Du Page County, Illinois, 120 rods of six-inch tile at such places on said farm as the said party of the first part may designate for the sum of forty cents per rod, said tile to be so laid that there shall be sufficient fall to properly drain the land through which the same is laid. And all ditches to be properly filled by the party of the first part; and the said party of the second part agrees to pay said party of the first part. said party of the second part agrees to pay said party of the first part one-half the consideration above expressed when he has laid 60 rods of said tiling and the remainder on completion of the contract.

Witness the hands of the parties hereto the day and year above itten. (Signed) W. J. SHAW, IN JENING

written.

A. N. JENKÍNS.

A Contract for the Sale of Horses, Cattle, or other Personal Property. This agreement, between A. B. Johnson and C. D. Coddington, made

This agreement, between A. B. Johnson and C. D. Coddington, made this nineteenth day of October, 1901, witnesseth:

That said A. B. Johnson, for the consideration hereinafter mentioned, shall sell and deliver on the first day of November next to said C. D. Coddington at his residence, One Double Wagon, Two Four-Year-Old Colts and Six Yearling Heifers.

That said C. D. Coddington, in consideration thereof, shall pay said A. B. Johnson Three H indred Dollars, upon the delivery of said prop-

erty.

In witness whereof we have this day set our hands and seal. A. B. JOHNSON, C. D. CODDINGTON.

Estray Notice.

Take Notice!—On the 3rd day of June, 1901, there strayed onto my inclosed land in the town of Van Wert, County of Du Page: One two-year-old colt, a dark bay, with small star in the forehead, and left hind foot white; and one dark-brown calf, with black spots on each side. Any one claming the above-described animals can obtain possession Any one can hing the above determined a winership, and paying all ex-pense and cost.

R. ZACHMAN. pense and cost.

- 1. The above notice may be printed in the local paper, or written out, and tacked up in three or four prominent places in the vicinity where the stray animal was taken up.
- 2. No one can claim a stray without advertising the same, and giving the proper notice, such as the statutes of the State require.
- 3. If the stray is not redeemed by the owner, it may be sold at public auction to pay cost and expense.

PROPERTY, REAL AND PERSONAL.

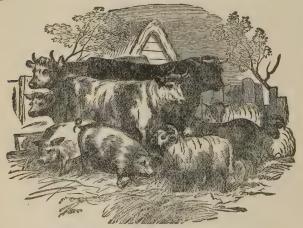
Property is either Real Estate or Personal Property. Real Estate is fixed property, such as houses and lands. Personal Property consists of all movable material, such as horses, cattle, furniture, merchandise, notes, cash, mortgages, etc. The capital stock of corporations is personal propertv.

Personal property may become real estate by being attached to the ground, and real estate can be made personal property; as coal taken from a mine or trees that have been cut down.

THE LAW GOVERNING THE SALE AND TRANSFER OF PROPERTY.

- I. A sale is the exchange of property for money, which is either paid at once or is to be paid in the future. An agreement to sell at a future date is not a sale.
- 2. There are many complicated things pertaining to the sale of property which every thoughtful man should understand.
- 3. The thing sold must either exist at the time of the sale or there must be a well-founded reason that it will be in existence and in possession of the seller. For example: If a man sold a horse for \$100 and it transpires that the horse died before the actual time of the sale the transaction would not be a sale. otherwise it would.
- 4. Grain or other produce not yet sowed or planted can be sold because the seller may reasonably expect a crop. Machinery or other manufactured goods may be sold before they are made and the seller can be held to perform his part of the contract the same as though the articles actually existed at the time of the sale.
- 5. The thing sold must be specified and set apart as the property of the buyer. For example: The sale of ten bushels of wheat from a certain bin would not be a sale unless the grain was measured and set apart.
- 6. The price must be fixed by mutual consent, or be understood by the terms of the sale.
- 7. Any defects which can be seen in property or in animals when sold do not relieve the buyer from meeting his contract though he claims that he did not see the defects. The law does not furnish eyes for the purchaser of property.

- 8. But defects in property or animals which cannot be seen, and of which the seller makes no statement, but recommends is as good or sound, relieves the buyer from his contract.
- 9. When nothing is said as to the time of payment when the sale is made the law presumes that the property must be paid for before the purchaser can secure possession. If credit is agreed upon the buyer is entitled to immediate possession.
- 10. The purchaser, in order to make good his bargain, should always advance a small amount, to bind the seller to the bargain.



Form of Bill of Sale.

KNOW ALL MEN BY THESE PRESENTS, That I, Jared K. Long, of Aurora, Kane County, Illinois, in consideration of six hundred (\$660) dollars to me in hand paid by F. A. Lueben, of the same place, the receipt of which is hereby acknowledged, do hereby grant, sell, assign, transfer and deliver unto the said F. A. Lueben, his heirs and assigns, the following goods and chattels, to wit:

 Four Oxen, at \$50.00 each
 \$200.00

 30 head of Sheep, at \$4.00 each
 120.00

 Five sets of Harness, at \$20.00 each
 100.00

 Two Farm Wagons, at \$25.00 each
 70.00

 One Corn Planter, at \$20.00
 20.00

 Six Ploys, at \$15.00 each
 90.00

cant and defend the same against the lawful claims and 'demands of all persons whomsoever.

In witness whereof I have hereunto set my hand and seal this 29th day of June, A. D. 1901. (Signed) J. K. LONG. [Seal.]

Jacob Damm

Bill of Sale. Special Form for the West.

KNOW ALL MEN BY THESE PRESENTS, That I, James C. Smith, of Great Falls, County of Cascade, and State Montana, in consideration of eighty dollars to me in hand paid by D. C. Robert of the same place, the receipt of which is hereby acknowledged, do hereby grant, sell, transfer and deliver unto the said D. C. Robert, his heirs and assigns, the following chattels, to wit:

And I hereby guarantee these chattels to be in every way as above described; that they are my lawful property, free from all incumbrances, and that I have a good right to sell and convey the same as aforesaid; and further, that I will defend the same against all claims whatsoever.

In witness whereof I have hereunto set my and and seal this 19th day of June, A. D. 1900. (Signed) JAMES C. SMITH. [Seal.] In the presence of

Wølter J. Miller.

BANKRUPTCY.

1. A Bankruptcy Act was passed by Congress and went into force July 1, 1898, which virtually supersedes and does away with all state insolvency laws and proceedings. While this act is in force, all such acts are suspended.

2. Courts.—The courts having jurisdiction in bankruptcy cases are the District Courts of the United States, in the several States and Territories, and the Supreme Court of the District of

Columbia.

3. Acts of Bankruptcy.—(a) Acts of bankruptcy by a person consist of fraudulently conveying, transferring, concealing, or removing property with intent to hinder, delay, or defraud creditors. (b) Making transfers of property when a person is insolvent. (c) Suffering a creditor to obtain a preference when the debtor is insolvent. (d) General assignment for the benefit of creditors. (e) Admitting in writing inability to pay debts.

4. Bankrupts.—Bankrupts are of two kinds, voluntary and involuntary. Involuntary bankrupts are those declared bankrupts by the proper courts on petition of creditors who have committed one or more of the acts of bankruptcy hereinbefore specified. Voluntary bankrupts are those who are declared to be bankrupts on their own motion or petition. Any person who owes debts, except a corporation, may become a voluntary bankrupts and the second sec

- rupt. Any person, except a wage-earner, farmer, any unincorporated company and any corporation engaged in manufacturing, trading, printing, publishing or mercantile proceedings owing debts to the amount of One Thousand Dollars or over and private bankers, may be declared involuntary bankrupts.
- 5. Exemptions.—Bankrupts are allowed the same exemptions as against executions or attachments.
- 6. Discharges in Bankruptcy, which protect persons from all debts except those hereinafter mentioned, may be secured on petition to the proper court after the expiration of one month and within twelve months after being adjudged a bankrupt. Such discharge releases a bankrupt from all of his debts, except taxes, judgments for fraud, debts not scheduled, debts created by embezzlement, misappropriation or defalcation.
- 7. Officers in Bankruptcy.—The principal officers in bankruptcy proceedings are the referee and trustee. The referees are appointed by the District Judge, hold their terms for two years, and are practically assistant judges to the court, and have general charge of bankruptcy proceedings. Their number is determined by the amount of business, and is largely discretionary with the United States District Judge. Their fee is Ten Dollars, which must be paid when the proceedings are commenced. The trustee is appointed by the creditors at their first meeting after the person has been declared a bankrupt, and their duties are largely the same as those of receivers or assignees in insolvency proceedings. Both referees and trustees are required to give bond.
- 8. Meetings of Creditors.—After the party has been adjudged a bankrupt, a meeting of all creditors must be called not less than ten days nor more than thirty days after such adjudication, at the county seat of the county where the bankrupt has his principal place of business or resides. At the first meeting of the creditors, the referee presides, allows or disallows claims of creditors, and may publicly examine the bankrupt. At this meeting the trustee is appointed. All claims must be presented under oath in writing, setting forth his claim to the referee.
- 9. Notices.—Ten days' notice by mail of all the principal proceedings in bankruptcy are given to creditors by the referce.
- 10. How Commenced.--Proceedings in involuntary bankruptcy are commenced by filing a petition with the Clerk of the

District Court, setting forth the name and residence of the bankrupt, an accurate list of all his property, and a schedule of all his debts, giving the name and address of all his creditors. The time is then fixed by the court for a hearing upon said petition, due notice thereof being given. On such hearing, the question of whether the person is entitled to the benefits of the act is decided, and the judgment of the court declares the person a bankrupt or not, as the case requires, and then the proceedings take the usual course under rules which have been adopted by the Supreme Court of the United States. These rules are too numerous and extensive to be recited here.

COAL LANDS.

1. Application for Entry.—Every person above the age of twenty-one years, who is a citizen of the United States or who has declared his one years, who is a citizen of the United States or who has declared his intention to become such, or any association of persons severally qualified as above, shall upon application to the Register of the proper Land Office, nave the right to enter by legal subdivisions any quantity of vacant coal land of the United States not otherwise appropriated or reserved by competent authority, not exceeding one hundred sixty acres to each individual or person, or three hundred twenty acres to such association, upon purpose the control of the control

2. Settlers Preferred.—Any person or association of persons, severally qualified as above provided, who have opened and improved, or shall erally qualified as above provided, who have opened and improved, or shall hereafter open and improve, any coal mine or mines upon public lands, and shall be in actual possession of the same, shall be entitled to a preference right of entry, under the preceding section, of mines so opened and improved, provided, that when any association of no less than four persons severally qualified as above provided, shall have expended not less than five Thousand Dollars (\$5,000.00) in working or improving any such mine or mines, such association may enter not exceeding six hundred forty acres, including such mining improvements.

3. Land Office Proceedings.—All claims under the preceding sections must be presented to the Register of the proper land district within aixty days after the date of actual possession, and the commencement of improvements on the land by the filing of a declaratory statement therefor but when the township plat is not on file at the date of such improvement, filing must be made within six d ys from the receipt of such plat from the Land Office.

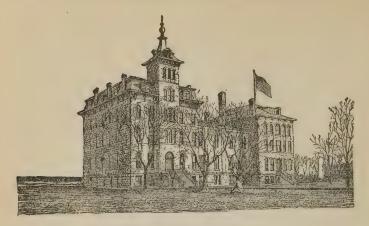
trom the Land Office.

4. Entry Limited.—The three preceding sections shall be held to authorize only one entry by the same person or association of persons, and no association of persons, any member of which shall have taken the benefit of such sections, at her as an individual or as a member of any other association, shall enter or hold any other lands under the provision thereof, and no member of any association, which shall have taken the benefit of such sections, shall enter or hold any other lands under their provisions, and all persons claiming under Section 1 shall be required to prove their respective rights and pay for the lands filed upon, within one year from the time prescribed for filing their respective claims, and upon failure to file the proper notice or to pay for the land within the required period, the same shall be subject to entry by any other qualified applicant.

5. Conflicting Claims.—In case of conflicting claims upon coal lands where improvements shall be commenced, priority of possession and improvements, followed by proper filing and continued good faith, shall determine the preference-right to purchase. The Commissioner of the General Land Office is authorized to issue all needful rules and regulations for carrying into effect the provisions of this and the four preceding sections. 4. Entry Limited .- The three preceding sections shall be held to

tions.

NOTE. The proceedings to enter coal lands under the above sections Fre regulated by a circular of the General Land Office of July 31, 1882.



NORTHWESTERN COLLEGE, NAPERVILLE, ILL.

Proposal to Erect a Public Building.

To the Directors of School District No. 7, Township of Milton, Du Page County, Illinois:

We propose to furnish all materials of every kind and character re-

quired to be used in the construction and the completion of said building, and we agree that the work, when completed, and all materials, shall fully and strictly comply with the plans and specifications hereinbefore mentioned, and that said building shall be completed and ready for occupancy on or before six months from the date hereof.

We propose to construct said building and complete it in accordance with the foregoing proposition for the sum of ten thousand (\$10,000) dollars, payable as follows: \$5,000.00 when the walls are up and roof is on: \$2,000.00 when the plastering is completed, and the remainder on

completion of the building.

We hope this proposition may be accepted by your honorable board. Dated this 13th day of May, 1901. JAMES HARRIS & CO.

HOW TO SECURE A LIEN ON PROPERTY.

- 1. A .ien is a legal claim. It includes every case in which cith r real or personal property is charged with any debt or duty. In other words, it is the right to hold possession of property until some claim against it has been satisfied.
- 2. Possession is always necessary to create a lien except in case of mortgages. The lien simply extends to the right

of holding the property until the debt is satisfied. The property cannot be sold without the consent of the owner, except by order of the court.

- 3. Law.—The existence of a lien does not prevent the party entitled to it from collecting the debt or claim by taking it into court.
- 4. Parties Entitled to Liens.—Warehouse men, carpenters, tailors, dyers, millers, printers, etc., or any persons who perform labor or advance money on property or goods of another have a lien on same until all charges are paid.

5. Hotel Keepers have a lien upon the baggage of their

guests, whom they have accommodated.

- 6. Common Carriers have a lien on goods carried for transportation charges.
- 7. Agents have a lien on goods of their principals for money advanced.
- 8. How to Hold the Lien.—Never give up possession of the property until the debt is paid.
- 9. Real Property.—If the debt is on a house, barn or other real property, file a lien on the whole property, and have it recorded in the County Recorder's office. The claim then partakes of the nature of a mortgage.
- acted special laws to protect mechanics and material men, who may furnish material and labor for the erection, construction, repair and improvement of buildings situated thereon. The method of securing these liens and enforcing them in the different States varies so widely that it is almost impossible to give such a statement as will cover all States. The courts have construed such laws very strictly and in order to entitle a person to such lien the provisions of the law granting the same must be strictly complied with. Mechanics and material men desiring to avail themselves of these statutes would better consult some good lawyer and have him prepare the necessary papers. The following form is the one commonly in use in the State of Illinois:

Form of Mechanic's Lien.

STATE OF ILLINOIS, DU PAGE COUNTY. ss. In the Circuit Court, Du Page County. JULIUS WARREN, SMITH. Claim for Lien.

Julius Warren, being first duly sworn, on oath, says that ne is the claimant above named, and that the attached "Exhibit A," is a just and true statement of the account due him from said Martin Smith for labor and materials furnished said Martin Smith at the times in said statement mentioned, which various amounts are due and payable to him from and after the respective dates thereof; and affiant says that the labor and materials in said statement mentioned were used in the construction and improvement of a two-story frame building situate upon the following described premises in the County of Du Page and State of Illinois, to wit: Lot two (2), in Block three (3), of the original town of Hinsdale.

And affiant says that there is now due and owing to said Julius Warren from said Martin Smith, at whose request said material and labor was furnished as aforesaid, after allowing to him all just credits, and set-offs, the sum of \$500, for which amount said Julius Warren claims

a lien upon the above described premises.

Subscribed and sworn to before me this 29th day of February, A. D. 1901.

JOHN SMITH,
Notary Public.

JULIUS WARREN.

N. B.—The foregoing statement should be signed and sworn to before some officer authorized to administer oaths, and filed with the Clerk of the Circuit Court of the County where the real estate is situated, and a suit to enforce the same must be begun within two years from the date of the completion of the contract.

LAW ON GUARANTEES.

- 1. A guarantee (also spelled guaranty) is a written promise that a person will perform some duty or answer for the payment of some debt, in case of the failure of another person.
- 2. The person who guarantees the faithfulness of another is called the guarantor.
 - 3. The guarantee is the person to whom the pledge is made.
 - 4. All guarantees must be in writing.
- 5. A guarantee, to be binding, must be for a consideration. The consideration should be named or expressed as "for value received."
- 6. A mere accommodation or overture is not sufficient to hold a guarantor.
- 7. A guarantee must be accepted to make it a contract, and the guaranter must have notice of its acceptance within a reasonable time.
- 8. A guarantor, after paying the debt, has the right to substitute himself in place of the creditor.
- 9. Guarantees of commission merchants binding them to warrant the solvency of the purchaser of goods they sell on credit, need not be in writing.
- To. The terms of the contract of guarantee are to be strictly construed.

12. In case of a cough the horse must have been heard to cough previous to the purchase. If lame, the lameness must be proved to arise from a cause that could not have occurred after the purchase. A guarantee after the sale of the horse is of no effect.

FORMS OF GUARANTEES.

A Guarantee for the Purchase of a Horse.

Osage, Kansas, June 30, 1901.

In consideration of One Hundred and Fifty Dollars, for a bay mare, I hereby guarantee her to be only six years old, sound, free from vice and quiet to ride or drive. RALPH GOOD.

N. B.—This guarantee embraces every cause of unsoundness that can be detected, and the seller will be held for all the defects in the animal at the time of sale. This is the only safe and satisfactory way for a man to purchase a horse who is not an experienced judge of horses.

Guarantee on Back of a Note.

For value received, I hereby guarantee the payment of the within JAMES GLOVER. note.

Fort Scott, Kansas, Oct. 12, 1901.

Guarantee for Payment of a Bill.

W. Reinke, Esq. Dayton, Ohio, Aug. 30, 1902.
Dear Sir:—I hereby guarantee the payment of any bill or bills of merchandise Mr. John A. Dahlom may purchase from you, the amount of this guarantee not to exceed five hundred dollars (\$500), and to expire at Respectfully yours, CHAS. ADAMS. the end of three months from date.

Guarantee of a Debt Already Incurred.

St. Louis. Mo., July 10, 1901.

Messrs. H. E. Bechtel & Co., West Salem.

Gentlemen:—In consideration of one dollar paid me by yourselves, the receipt of which I hereby acknowledge, I guarantee that the debt of four hundred dollars now owing to you by Ira I. Ferry shall be paid at maturity.

Very respectfully yours, W. A. PIPER.

LANDLORD AND TENANT.

1. Definition.—This is a term used to denote the relation which exists by virtue of a contract expressed or implied between two or more persons for the possession or occupation of lands or tenements either for a definite period of life or at will

The LANDLORD is the person who lets the prem ses. The TENANT is the one who occupies the land or premis is in subordination to the Landlord only. The contract be ween the two is called a LEASE. The party granting the possession and profit is called the LESSOR, and the party to whom the grant is made is called the LESSEE. The most common forms of tenancy are for life or for a definite term. Either so many years, so many months, or so many weeks.

- 2. Leases.—Leases which are to run for more than a year or which are not to be performed within a year must be in writing, or they are absolutely void. Leases for a year or less and which can be performed within a year are valid if not in writing. To avoid misunderstandings, disputes, and possible litigation it is always best that the Lease be in writing and signed by both parties.
- 3. Leases for life are those which are terminated either by death of the Lessee or of some other person living at the date of the Lease. Unless such Leases contain covenants to the contrary the life Tenant or the Lessee is required to pay all taxes on the premises and keep the same in repair.
- 4. Leases for Years.—The Lessor, unless it is otherwise expressly provided in the Lease, is under obligations to put the Tenant in possession and see that his possession is not disturbed by any title paramount to his Landlord's. He is not required to make repairs unless he so stipulates in the Lease, nor is there an implied contract on his part that the premises are fit for the purpose for which they are let. He must pay all taxes regularly levied and assessed against said premises and keep the buildings on said premises insured at his own expense if he desires to carry insurance.
- 5. Implied Agreement by Tenant.—Where there is no agreement to the contrary, the Tenant is bound to take possession of the premises, take ordinary care of the same, keep them in a tenantable condition, and make repairs made necessary by his negligence, except injuries resulting from wear and tear and inevitable accident.

If the premises leased be a farm, he is also required to cultivate the same in the manner required of good husbandry. He must not commit waste, alter buildings or fences, and must surrender up the premises at the end of his term in as good condition as when entered upon originally, wear and tear excepted. He is not required to pay taxes or keep buildings insured, and must pay the stipulated rent at the time it becomes due by the terms of his Lease. If 1 0 time is specified in his Lease, then the

rent is due at the end of the term. He may underlet the premises or assign the Lease unless his Lease contains covenants to the contrary.

If he places permanent improvements upon the premises which are so attached to the buildings or land that they cannot be removed without injury, he has no right to remove the same unless his Lease so provides. He may remove trade fixtures if the same are removed from the premises before the expiration of his Lease.

6. Special Covenants.—The usual covenants contained in the ordinary Lease provide for the yielding up of the possession of the premises at the end of the term without notice. in as good condition as when the same were entered upon by the Lessee, loss by fire, inevitable accident and ordinary wear excepted. There is also usually a covenant providing against underletting or assigning the Lease, and a covenant that in case of non-payment of rent, or failure to perform any of the covenants of the Lease the Lessor shall have the right to determine said Lease and recover possession of the premises.

Farm leases usually provide, in addition to the covenant above mentioned, that the Tenant shall keep the fruit and ornamental trees, vines and shrubbery, free from injury of stock and from plowing or otherwise; that the Lessee will draw out the manure and spread it on the premises; that no straw shall be sold and removed from the premises during the term or at its termination; that the Tenant will keep the buildings and fences in repairs, the Landlord to furnish necessary material; that the Landlord may do fall plowing on the stubble ground after the grain has been removed therefrom, and that he may enter for the purpose of making repairs, viewing the premises and sowing timothy seed.

Sometimes the Landlord covenants to make all new fences. to furnish water and many other provisions which may be inserted as the occasion may require.

A Lease for Renting a House.

KNOW ALL MEN BY THESE PRESENTS:
That I have, this sixth day of September, 1901, let and rented unto Andrew Jay my house and premises, number 142 on Archer Street, in the town of Livermore, and State of Iowa, with the sole and uninterrupted use and occupation thereof for one year, to commence the first day of May next, at the monthly rent of twenty dollars, payable in advance.

Witness my hand and seal,

Short Form of Lease.

John Parks leases to J. B. Moulton [description of premises] for __ term of.......Dollars. J. K. MILLER. Dated this 1st day of August, 1901.

The following is a form of Lease in common use for bot' sity and country property:

THIS INDENTURE, Made this 15th day of July, A. D. 1901, betwee John Doe of Decatur, Ill., party of the first part, and Richard Roe of the same place, party of the second part, Witnesseth, That the party of the first part, in consideration of the covenants of the party of the second part, hereinafter set forth, does by these Presents, lease to the party of the second part the following described property, to wit: Lot one (1) in Block Ten in the original Town of Decatur in the City of Decatur and State of Illinois, TO HAVE AND TO HOLD THE SAME, To the party of the second part, from the 15th day of July, 1901, to the 15th day of January, 1902. And the party of the second part, in consideration of the leasing the premises as above set forth, covenants and agrees with the party of the first part to pay the party of the first part, at First National Bank, Decatur, as rent for the same, the sum of Sixty Dollars, payable as follows, to wit: \$10 on the 15th day of each and every month during the term commencing on the date hereof. term commencing on the date hereof.

AND THE PARTY OF THE SECOND PART covenants with the party of the first part, that at the expiration of the term of this lease ...he...will yield up the premises to the party of the first part, without further notice, in as good condition as when the same were entered upon by the party of the second part, loss by fire or inevitable accident and ordinary wear excepted.

IT IS FURTHER AGREED by the party of the second part, that neither......he......nor his legal representatives will underlet said premises or any part thereof, or assign this lease without the written assent of the party of the first part first had thereto.

AND IT IS FURTHER EXPRESSLY AGREED between the parties hereto, that if default shall be made in the payment of the rent above reserved, or any part thereof, or any of the covenants or agreements herein contained to be kept by the party of the second part, it shall be lawful for the party of the first part or his legal representatives, into and upon said premises or any part thereof, either with or without process of law, to re-enter and re-possess the same at the election of the party of the first part, and to distrain for any rent that may be due thereon upon any property belonging to the party of the second part. And in order to enforce a forfeiture for non-payment of rent it shall not be necessary to make a demand on the same day the rent shall become due, but a failure to pay the same at the place aforesaid or a demand and a refusal to pay on the same day, or at any time on any subsequent day, shall be sufficient; and after such default shall be made, the party of the second part and all persons in possession under him shall be deemed guilty of a forcible detainer of said premises under the statute.

AND IT IS FURTHER COVENANTED AND AGREED between the parties aforesaid,

The covenants herein shall extend to and be binding upon the heirs, executors and administrators of the parties to this Lease.

WITNESS THE HANDS AND SEALS of the parties aforesaid, the day and year first above written.

JOHN DOE. (Seal.) RICHARD ROE. (Seal.)

Farm Lease, Money Rent.

The following form for farm lease, money rent, is a good one and contains the usual special covenants required under ordinary circumstances:

THIS INDENTURE, Made this second day of April, in the year of our Lord one thousand eight hundred and ninety-seven, between Henry Williams of the Town of Milton, in the County of Du Page and State of Illinois, party of the first part, and John Carter of the same place, party of the second part, WITNESSETH, That the said party of the first part for and in consideration of the covenants and agreements hereinafter mentioned, to be kept and performed by the said party of the second part, his executors, administrators and assigns, has demised and leased to the maid party of the second part all those premises situate, lying and being in the Town of Milton, County of Du Page, State of Illinois, known and described as follows, to wit: The North West quarter of Section ten (10) in Township 39, north range 10, east of the 3d principal meridian.

TO HAVE AND TO HOLD the said above described premises, with the appurtenances, unto the said party of the second part, his executors, administrators and assigns, from the 2d day of April, in the year of our Lord one thousand eight hundred and ninety-seven, for and during and until the 2d day of April, in the year of our Lord one thousand nine hundred, yielding possession and paying rent therefor as hereinafter

stated.

And the said party of the second part, in consideration of the leasing of the premises aforesaid by the said party of the first part to the said party of the second part, does covenant and agree with the said party party of the second part, does covenant and agree with the said party of the first part, his heirs, executors, administrators and assigns, to pay the said party of the first part, as rent for the said demised premises the sum of fifteen hundred dollars, as follows: \$200 on the 1st day of October, 1897, \$300 Jan. 1, 1898, \$200 Oct. 1, 1898, \$300 Jan. 1, 1899, \$200 Oct. 1, 1899, \$300 Jan. 1, 1900, payable at the First National Bank, Naperville, Ill.

And the said party of the second part agrees to preserve and keep the fruit and ornamental trees, vines and shrubbery, that now are or shall be planted on the premises, from injury by plowing, or from cattle horses sheep or otherwise.

cattle, horses, sheep or otherwise.

To scatter and expend upon said premises all the manure and compost, suitable to be used; such manure as is unfit for use to leave upon said premises for future use thereon; and not to burn any stalks or straw or stubble on said premises. No straw to be sold or removed from said premises or at its termination.

To keep said premises, including the hedges and fences, in proper and necessary repair, provided that, if necessary, the landlord. shall furnish such materials as shall be needful to repair the fences within a

reasonable time of being notified of its want.

And the said party of the second part further covenants with the And the said party of the second part further covenants with the said party of the first part that, at the expiration of the time in this lease mentioned, he will yield up the said demised premises to the said party of the first part in as good condition as when the same were entered upon by the said party of the second part, loss by fire or inevitable accident and ordinary wear excepted.

It is further agreed by the said party of the second part, that neither he nor his legal representatives will underlet said premises, or any part thereof, or assign this lease without the written assent of said party of the first part had and obtained thereto.

The said party of the first part reserves the privilege of plowing the subble ground when the said party of the second part may have secured

stubble ground when the said party of the second part may have secured the grain grown thereon. The said party of the second part agrees to keep said premises free from burs, and to keep all necessary ditches and drains plowed out during this lease. Also agrees that the said party of the first part may enter said premises for the purpose of viewing and sowing timothy seed and making repairs.

IT IS EXPRESSLY UNDERSTOOD AND AGREED by and between the parties aforesaid, that if the rent above reserved, or any part thereof, shall be behind or unpaid on the day and at the place of payment whereon the same ought to be paid, as aforesaid, or if default shall be made in any of the covenants herein contained, to be kept by the said party of the second part, his executors, administrators or assigns, it shall and may be lawful for the said party of the first part, his heirs, executors, administrators, agent, attorney or assigns, at his election, to declare said term ended, and the said demised premises, or any part thereof either with or without process of law, to re-enter, and the said thereof, either with or without process of law, to re-enter, and the said party of the second part, or any other person or persons occupying, in or upon the same, to expel, remove and put out, using such force as may be necessary in so doing, and the said premises again to re-possess and enjoy, as in his first and former estate; and it shall be the duty of the said party of the second part, his executors, administrators or assigns, to be and appear at the said place above specified for the payment of said rent, and then and there tender and pay the same as the same

of said rent, and then and there tender and pay the same as the same shall fall due from time to time, as above, to the said party of the first part, his agent or assigns; or in his absence, if he shall offer to pay the same then and there, such offer shall prevent said forfeiture.

And it is expressly understood that it shall not be necessary, in any event, for the party of the first part, or his assigns, to go on or near the maid demised premises to demand said rent, or elsewhere than at the place aforesaid. And in the event of any rent being due and unpaid, whether before or after such forfeiture declared, to distrain for any rent that may be due thereon, upon any property belonging to the said party of the second part. And if at any time said term shall be ended at such election of maid party of the first part, his heirs, executors, administrators or assigns, as aforesaid or in any other way, the said party of the second part his as aforesaid or in any other way, the said party of the second part, his executors, administrators or assigns, do hereby covenant, promise and agree to surrender up and deliver said above described premises and property peaceably to the said party of the first part, his heirs, executors, administrators or assigns, immediately upon the determination of said term as aforesaid; and if he shall remain in the possession of the same five days after notice of such default, or after the termination of this lease, in any of the ways above named, he shall be deemed guilty of a forcible detainer of said demised premises, under the statute, and shall be subject to all the conditions and provisions above named, and to eviction and removal, forcibly or otherwise, with or without process

of law, as above stated.

And it is further covenanted and agreed by and between the parties, that the party of the second part shall pay and discharge all costs and attorney's fees and expenses that shall arise from enforcing the covenants

In presence of

Centius Seldon.

of this indenture by the party of the first part.

IN TESTIMONY WHEREOF, The said parties have hereunto set hands and seals the day and year first above written in duplicate.

HENRY WILLIAMS.

(Seal.)

JOHN CARTER. 7. Termination of Lease.—Under the strict rules of the common law the Landlord might terminate the lease for non-payment of rent, but in order to do so it was necessary for him to go upon the premises and make a demand for the exact amount of rent due upon the very day that the rent came due, and a failure to do this waived the right to declare forfeiture. This strict rule of the common law has been modified in nearly all the States so that it is no longer necessary to make a demand for the rent on the day the rent comes due. Instead of this most of the States provide that before the Landlord shall declare a forfeiture a demand in writing, for the amount of rent due, shall be served upon the Tenant, and he be notified that in case he fails to pay the same within a fixed time, generally five or ten days, the Landlord will elect to terminate his lease; in such cases the Tenant has until the end of the last day fixed in the notice to pay the rent and save the forfeiture.

The statutes of the various States also provide that in case of breaches of other covenants contained in the lease, notice of such breach and intention of the Landlord to declare forfeiture of the same shall be served upon the Tenant to guit and deliver up possession of said premises within a time, generally not less than ten days.

The following are the forms of notices above referred to in common use:

Landlord's Five Day Notice.

To John Doe:

due, for me.

Dated this 15th day of July, 1900.

JAMES SMITH. Landlord.

Ten Days' Notice to Quit.

To John Doe:-You are hereby notified that in consequence of your default in payment of rent and also to keep the buildings and fences on the premises hereinafter described in proper repair, being Lot One in Block Ten of the original town of Aurora, Kane County, Illinois, I have elected to terminate your lease, and you are hereby notified to quit and deliver up possession of the said premises to me within ten days of this date.

Dated this 21st day of July, 1900.

(Signed RICHARD ROE. Landford.

8. Termination of Tenancy from Year to Year and Month to Month.—Where a Tenant has a Lease for a year of premises with annual rent, and at the end of his term holds over without a new agreement, the law construes this to be a leasing from year to year, and such tenancy at common law could only be terminated by either party giving the other six months notice prior to the end of any year.

This notice has been changed by a statute in Illinois to sixty days prior to the end of any year, and a shorter time has also been fixed in many other States.

A Tenant who has a Lease of property for one or more months with monthly rent, who holds over after the termination of his Lease, it termed a Tenant from month to month, and such relation can only be terminated by either party giving the other thirty days' notice of his intention to terminate the tenancy. Such notice to be given thirty days prior to the end of any month.

- 9. Demand.—It is a general rule, subject to few exceptions, that in order to get possession of property where the inception of the Tenant was lawful, either a notice to quit or a demand for possession is necessary on the part of the owner before commencing proceedings to get possession.
- no. Securing Possession.—When a Lease has been terminated either by its term or by notice, and the Landlord is entitled to possession, the most common method of recovering possession is to commence an action of forcible entry and detainer against the Tenant for the possession of the premises. This may be done before a Justice of the Peace by filing a complaint and having a summons issued. If the possession of the Tenant was lawful in its inception the Landlord has no right to forcibly dispossess him, and if he does so it is at his peril. Taking possession by force subjects the Landlord to an action for heavy damages.

Leases sometimes contain clauses that where a forfeiture has taken place the Landlord shall have the right to take possession of the premises leased by force if necessary. Such covenants, however, cannot be enforced and do not justify the Landlord in using force, and the only course to pursue is to begin an action and recover a judgment for possession and have the constable of sheriff legally put the Landlord in possession.

DISTRESS FOR RENT.

is by distress warrant. This is a warrant issued by the Landlord to some third person, authorizing and empowering such third person to levy said warrant upon any property of the Tenant

for the satisfaction of the rent. This remedy is the most common and effective, as it enables the Landlord to get a lien upon the property of the Tenant without delay, and the process is of very ancient origin.

The statutes of most of the States provide for this remedy and the mode of procedure after the levy of the warrant is generally prescribed by the statute. In general it is the duty of the officer, as soon as the levy is made, to file an inventory of the property levied upon with some court together with a copy of his warrant, and usually a summons from said court is issued against the Tenant in favor of the Landlord and the suit then proceeds much after the manner of suits in attachment.

2. Time of Levy.—Under the Common Law the Tenant had all of the day on which the rent came due within which to pay the same and a distress could not be levied until the day after the rent came que. In Illinois, however, in case the Tenant sells or attempts to dispose of the crop grown upon the premises so as to endanger the Landlord's lien for his rent, a distress warrant may be levied before the rent comes due. Many of the statutes of the other States contain provisions of a similar character. The person making the levy should be careful not to levy on more property than is necessary in order to satisfy the rent due, otherwise he will be liable to the Tenant for making an excessive levy.

LANDLORD'S LIEN.

Under the Common Law the Landlord had no lien upon the property of the tenant until a distress warrant was actually levied upon the property of the Tenant. Most of the States, however, now provide that the Landlord shall have a lien upon all the crops grown upon the leased premises until the rent of the year in which said crop was grown has been paid, and this lien is ahead of all other liens; even though an execution may have been levied upon such crops, the Landlord's lien is paramount until his rent is satisfied. The usual method of enforcing the lien of the Landlord is by distress warrant levied in the manner hereshbefore described.

DEEDS, HOW WRITTEN, AND LAWS GOVERNING THEM.

- 1. Deeds must be written or printed on paper or parchment.
- 2. The names of the parties and places of residence are written first.
- 3. The property must be fully described. The description should be by bounds, or by divisions of United States surveys, or by subdivisions into blocks and lots, as shown on the records.
- 4. The deed must express a consideration, also a covenant to "warrant and defend," and be signed and sealed by the grantor or grantors. A deed without consideration is void.
 - 5. Deeds must be completely written before delivery.
- 6. Numbers should always be written in words followed by figures in parentheses.
- 7. If the grantor is married both he and his wife should join in the grant and in the execution of the deed, signing and acknowledging.
- 8. Where forms are prescribed by the statutes of a State, they must be followed.
- g The acknowledgment of a deed can be made only before certain persons authorized to take the same, such as justices of the peace, notaries, masters in chancery, judges and clerks of the courts, commissioners of deeds, etc.
- 10. Any person of legal age, competent to transact business and owning real estate, may convey it by deed.
- II. The deed takes effect upon its delivery to the person authorized to receive it, and should be recorded at once.
- 12. After the acknowledgment of a deed the parties have no right to make the slightest alteration.
- 13. The person making the deed is called the grantor, the person to whom the deed is delivered is called grantee.
- 14. A Warranty Deed.—The grantor warrants the title to be good, and agrees to defend the same against all persons.
- 15. A Quitclaim Deed releases only what interest the grantor has in the property.
- 16. Never purchase real estate without a careful examination of the title, either by yourself or a trusty attorney.
- 17. Always procure an abstract of title before advancing money or signing contract for purchase of land or lots.

- 18. The deed of a corporation must be signed by an agent or attorney and should be carefully executed. The seal is properly a piece of paper wafered on, or sealing wax pressed on. In the Eastern States nothing else satisfies the legal requirement of the seal. In other States the word "seal" inclosed in a square or any line drawn around it is regarded in law as a seal.
- 19. The execution of a deed is generally attested by witnesses. In many States two witnesses are required. In New York one is sufficient. In some States a witness is not required by law but it is always safer to have witnesses.
- 20. To have full effect a deed should be acknowledged and recorded. It is considered recorded as soon as it reaches the recording officer, who generally notes upon it the day, hour, and minute when it was received.
- 21. If the land is a gift and no price is paid for it, it is customary to insert "in consideration of one dollar paid me, the receipt of which I acknowledge."
- 22. Deeds are of a great variety. The forms vary greatly in the different States.
- 23. Forms of acknowledgments also differ greatly. The fuller forms are generally safer. For Forms of Acknowledgment see page 196.

Warranty Deed .- Long Form.

This Indenture, made this second day of March, in the year of our Lord one thousand nine hundred and one, between Andrew Samson and Polly Ann Samson, his wife, of the Village of Naperville, in the County of Du Page and State of Illinois, party of the first part, and Ebenezer P. Stought, of the City of Chicago, in the County of Cook and State of Illinois, party of the second part:

Witnesseth, That the said party of the first part, for and in consideration of the sum of ten thousand eight hundred and ninety (\$10,890) dollars, in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, and the said party of the second part forever released and discharged therefrom, have granted, bargained, sold, remised, released, conveyed, aliened and confirmed, and by these presents do grant, bargain, sell, remise, release, convey, alien, and confirm untr the said party of the second part, and to his heirs and assigns, forever, all the following described lots, pieces, or parcel fland, situated in the County of Du Page, and State of Illinois, and known and described as follows, to-wit:

The northwest quarter of Section thirty-six (36) in Township thirty-eight (38), North of Range eleven (11), East of the Third Principal Meridian, containing one hundred and sixty acres by Government survey. Also, an equal undivided one-half interest in lot number one (1) in block number three (3) of Smith's subdivision of Schuyler's additicate to the Village of Naperville, in the County and State aforesaid.

Fogether with all and singular the hereditaments and appurtenances thereunto belonging, or in any wise appertaining, and the reversion and remainders, rents. issues. and profits thereof:

thereunto belonging, or in any wise appertaining, and the reversion and "eversions, remainder and remainders, rents, issues, and profits thereof;

and all of the estate, right, title, interest, claim, or demand whatsoever, of the said party of the first part, either in law or in equity, of, in, and to the above bargained premises, with the hereditaments and appurtenances: To have and to hold the said premises above bargained

and described, with the appurtenances, unto the said party of the second part, his heirs and assigns forever.

And the said Andrew Samson and Polly Ann Samson, his wife, party of the first part, for themselves and their heirs, executors and administrators, do covenant, grant, bargain, and agree to and with the said party of the second part, his heirs and assigns, that at the time of the ensealing and delivery of these presents; they are well seized of the premises above conveyed, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in law, in fee simple, and have good right, full power, and lawful authority to grant, bargain, sell and convey the same in manner and form aforesaid, and that the same are free and clear from all former and other grants, bargains, sales, liens, taxes, assessments, and encumbrances, of what kind or nature soever; and the above bargained premises, in the quiet and peaceable possession of the said party of the second part, his heirs and assigns, against all and every other person or persons lawfully claiming or to claim the whole or any part thereof, the said party of the first part shall and will Warrant and Defend.

And the said party of the first part hereby expressly waive and release of the first part, for themselves and their heirs, executors and admin-

And the said party of the first part hereby expressly waive and release any and all right, benefit, privilege, advantage and exemption, under or by virtue of any and all Statutes of the State of Illinois, providing for the exemption of homesteads from sale on execution or otherwise.

In witness whereof, the said party of the first part have hereunto set

their hands and seals the day and year first above written.

Signed Sealed and Delivered) ANDREW SAMSON.

in the Presence of SALAMANDER S. STONE. POLLY ANN SAMSON. [Seal.]

Queclaim Deed.

This Indenture, made the 18th day of August, in the year of our Lord one thousand nine hundred and one, between Bay Scott and his wife, Lizzie E. Scott, of the City of San Francisco, in the State of California, party of the first part, and Timothy H. Barnard, of the Town of Chico, County of Butte, in the State of California, the party of the second part, County of Butte, in the State of California, the party of the second part, witnesseth: That the said party of the first part, for and in consideration of the sum of nine thousand (\$9,000) dollars, currency of the United States of America, to us in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, do by these presents remise, release, and forever Quitelaim unto the said party of the second part, and to his heirs and assigns forever, all the certain lots, pieces or parcels of land, situated in the said Town of Chico, County of Butte and State of California, and bounded and particularly described as follows, towit: as follows, to-wit:

Lot number three (3), in block number six (6), in the Town of Chico. and County of Butte, State of California. Also the northwest quarter of Section thirty-seven (37), in the Town of Chico, County of Butte and State of California, containing one hundred and sixty acres, more or less,

according to United States surveys.

Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging, or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

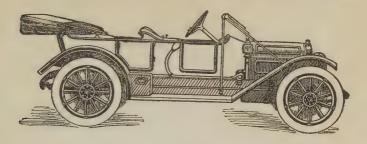
To have and to hold, all and singular, the said premises, together with the appurtenances, unto the said party of the second part, and to

his heirs and assigns forever.

In witness whereof, the said party of the first part have hereunto et their hands and seals the day and year first above written. Signed, Sealed and Delivered in the

Presence of BAY SCOTT. [Seal. KATIE BURKE, LIZZIB O. SCOTT. [Seal.] R. O. HALL.

N. B. For certificate of acknowledgment see Form 3, page 196.



AUTOMOBILE ROAD LAWS.

While there are no National laws as yet governing the driving of automobiles on the public highways, most States have placed them in their Statutes, and the following are quite uniformly in effect in all States:

1. Every owner of an automobile must apply to the Secretary of State for a certificate of registration and receive a proper distinctive number. Such number must be conspicuously displayed, both on front and back of the car.

2. Each car must have at least two headlights, visible 200 feet ahead and one rear red light visible 150 feet—lamps to be lit from sunset to one hour before suntise. It must also be provided with good and sufficient brakes, and a suitable horn or other signalling device.

3. No motor car must be left on road without attendant while any part of the machinery is running.

- 4. Racing or speeding on the public highway is strictly prohibited. No person shall drive faster than reasonable, having regard to traffic, life, limb or property. It will be an offense and considered unreasonable to exceed the following speed: In closely built up business portions of towns or cities, ten miles an hour—through residence sections, 15 miles an hour—outside of closely built up business or residence portions of city, town or village, twenty miles an hour—outside of incorporated towns or cities, twenty-five miles an hour—around corners or curves six miles an hour.
- 5. Whenever the driver of a motor car overtakes any person riding or driving he must pass to the *left* side, and the person to be passed must turn to the *right* of the center of the beaten track, so as to permit the free passage of the automobile on the *left*.
- 6. The driver of an automobile upon approaching any person walking, riding or driving must give reasonable warning and use every precaution—and if necessary stop his car—to avoid injury to such person, or frightening or injuring animals.



A MORTGAGE SALE.

They mortgaged their farm to start their son in business.

"Now over the hill to the poor-house."

MORTGAGES AND LAWS GOVERNING THEM.

- I. Mortgages are conditioned conveyances of estates or property by way of pladge to secure a debt.
- 2. All mortgages must be in writing, and be signed and mealed. They must be acknowledged and recorded.
- 3. There are two kinds of mortgages; a real estate mortgage, and a chattel mortgage. The former is a mortgage on real estate, the latter a mortgage on personal property.
- 4. A mortgagor is one who gives a mortgage and a mortagage one to whom it is given.
- 5. A mortgagee may sell or trapsfer his mortgage to another party.

- 6. Mortgages given with the intent to defraud creditors are void, as to all persons knowing of the fraudulent intent.
- 7. When the debt is paid for which the mortgage was given, the mortgage is void.
- 8. A foreclosure is the legal proceeding to sell the mort-gaged property to satisfy the debt.
- 9. In writing mortgages always insert the same description of land and lots as given in the deeds of same property.
- 10. Mortgages should be recorded with promptness after their execution. The first mortgage on record is the first lien on the property, notwithstanding another mortgage was given first, as to all persons not aware of that fact.
- II. Formerly, a mortgagor could redeem his land only before or when the debt became due, but further time is now given. This right to redeem is called a right in equity to redeem or an equity of redemption. This time to redeem varies in different States but is usually three years.
- 12. This right to redeem is considered of so much importance that no party is permitted to lose it even by his own agreement. Even though the mortgagor agrees in the most positive terms to forfeit his equity of redemption, the law sets aside such agreement and gives the debtor full time to redeem his property.
- 13. The only way to set aside this time to redeem is to give the mortgagee permission or authority to sell the property and thus to secure himself.
- 14. If a mortgagor erects buildings on mortgaged land and the mortgage is foreclosed, the mortgagee in taking possession gets all these additions.
- 15. If the mortgagee erects buildings and the mortgagor thereafter redeems his land, he gets the buildings without paying for them.
- 16. Notes secured by mortgage must in some States show upon their face that they are so secured.
- 17. The mortgage, or mortgage deed as it is usually called, gives the mortgagee the right to take immediate possession of the property, unless the mortgage deed contains a clause to the effect that the mortgagor may retain possession as long as he meets his payments.



THE MAN WHO PAYS HIS MORTGAGE AT THE DAY OF MATURITY.

Mortgage to Secure a Debt, with Power of Sale-Short Form.

This Indenture, made the.....day of............in the year one thou sand eight hundred and, between (name, residence and occupation of mortgagor) party of the first part, and (name, residence and occupation of mortgagor) party of the first part, and (name, residence and occupation of mortgagoe) party of the second part, witnesseth, that the said party of the first part, in consideration of the sum of (the amount of the debt) to him duly paid before the delivery thereof, has bargained and sold, and by these presents does grant and convey to the said party of the second part, and his heirs and assigns forever, all (here describe the premises) with the appurtenances, and all the estate, right, title, and interest of the said party of the first part therein.

This grant is intended as a security for the payment of (here describe the debt), which payments, if duly made, will render this conveyance void. And if default shall be made in the payment of the principal or interest show mentioned then the said party of the sec

the principal or interest above mentioned, then the said party of the second part, or his executors, administrators, or assigns, are hereby authorized to sell the premises above granted, or so much thereof as will be necessary to satisfy the amount then due, with the cost and expenses

allowed by law.

In witness whereof, the said party of the first part has hereunto set his hand and seal the day and year first above written.

Sealed and Delivered in) the Presence of

Mortgage on Real Estate-Long Form, with Insurance Clause.

PILIS INDENTURE WITNESSETH. That the mortgagor, F. A. Reik. and Panny E. Reik, his wife, of the Town of Naperville, in the County of Du Page and State of Illinois, mortgage and warrant to C. E. deyers, of the City of LaCrosse, County of LaCrosse and State of Wisconsin, to secure the payment of a certain promissory tote executed by F. A. Reik, bearing even date herewith, payable to the order of said C. E. Meyers, for the sum of eight hundred dollars. p yable four years from the date thereof, with interest at the rate of even (7) per cent. per annum, payable annually, the following described real estate, to-wit: The southeast ouarter (S. E. ¼) of section ... mber twenty-five (25), in township number forty (40), north of range number fifteen (15), east of fourth principal meridian. Also: Lots numbers one (1) and two (2), in block number nineteen (13), of Park addition to the town of Naperville, situated in the County of Du Page, in the State of Illinois, hereby releasing and waiving all rights under and by virtue of the homestead exemption laws of the State of Illinois,



THE MAN WHO NEVER PAYS A MORTGAGE.

and all rights to retain possession of said premises, after any default in payment or breach of any of the covenants or agreements herein contained.

BUT IT AN EXPRESSLY PROVIDED AND AGREED, That if default be made in the payment of the said Promissory Note, or any part thereof, or the interest thereon, or any part thereof, at the time and in the manner above specified for the payment thereof, or in case of waste or non-payment of taxes or assessments on said premises, or of a breach of any of the covenants or agreements herein contained, then and in such case the whole of said principal sum and interest, secured by the said Promissory Note in this Mortgage mentioned, shall thereupon, at the option of the said Mortgagee or his heirs, executors, administrators, attorneys or assigns, become immediately due and payable; and this Mortgage may be immediately foreclosed to pay the same by said Mortgagee, or his heirs, executors, administrators, at-torneys or assigns; and it shall be lawful for the said Mortgagee, or his heirs, executors, administrators, attorneys or assigns, to enter into and upon the premises hereby granted, or any part thereof, and to receive and collect all rents, issues and profits thereof.

UPON THE FILING OF ANY BILL to foreclose this Mortgage in any

court having jurisdiction thereof, such court may appoint any attorney or any proper person Receiver, with power to collect the rents, issues and profits arising out of said premises during the pendency of such foreclosure suit and until the time to redeem the same from any sale that may be made under any decree foreclosing this Mortgage shall expire; and such rents, issues and profits when collected may be applied toward the payment of the indebtedness and costs herein mentioned and described. And upon the foreclosure and sale of said premises, there shall be first paid out of the proceeds of such sale, all expenses of advertisement, selling and conveying said premises, and Afty dollars attorney's or solicitor's fees, to be included in the decree, and all moneys advanced for taxes, assessments and other liens; then there shall be paid the principal of said Note, whether due and payable by the terms thereof or not, and the interest thereon.

THE SAID MORTGAGOR covenants and agrees that he will keep all buildings that may at any time be upon said premises insured in such companies as the holder of said Note shall direct, for their full insurable value, and make the loss, if any payable to, and deposit the Policies of Insurance with, the party of the second part, or his assigns, as further security for the indebtedness aforesaid.

DATED this Third day of March, A. D. 1901.

F. A. REIK. (Seal.)

FANNY E. REIK. (Seal.)

CHATTEL MORTGAGES.

- 1. A chattel mortgage is a mortgage on personal property, such as live stock, machinery, farm implements, etc.
 - 2. Chattel mortgages are unknown in the State of Louisiana.
- 3. Chattel mortgages may in most States not run longer than one year; in Montana they may run one year and sixty days; in South Dakota, three years.
- 4. A chattel mortgage is a conditional sale of property, if the debt for which it was given is not paid.
- 5. The property must be taken possession of by the mortgage on the maturity of the mortgage, or it can be taken by other creditors.
- 6. To sell property covered by a chattel mortgage is a criminal offense.
- 7. A chattel mortgage must be acknowledged before a justice of the peace, or before the county judge, in which the mortgagor resides; in South Dakota they are not acknowledged, but require two witnesses.
- 8. A chattel mortgage given on personal property which is left in possession of mortgagor is prima facie void as to creditors of mortgagor. To render it valid it must contain permission by mortgagee that mortgagor may retain possession of the chattels, and that mortgagee may take possession of them whenever he feels himself insecure for any reason.
- 9. Chattel mortgages are usually given to secure notes of the mortgagor in the same way in which real estate mortgages are given to secure notes of the mortgagors. Greater strictness, however, is required in the acknowledgment, docketing, and recording of chattel mortgages than in the case of real estate mortgages.
- 10. A recent statute of the State of Illinois provides that notes secured by chattel mortgages must show on their face that they are secured by chattel mortgages, or they are absolutely void. Any defense which the maker of the note secured by chattel mortgage could make against the original payee is good against the note in the hands of an indorsee, even though indorsed before maturity. Chattel mortgages on household goods must be signed by the wife of mortgagot, and can only be foreclosed by a court proceeding.

One Pitts' Thrashing Machine; One Romeo Steam Engine; Two Bay Mares, six years old; Four Pair of Double Harnesses; Five White Chester Hogs (black and white); One Bay Gelding, seven years old; One Black and White Cow, four years old.

To have and to hold all and singular the goods and chattels unto the said Mortgagce hercin, and his heirs and assigns, to their sele use and behoof forever. And the Mortgagor herein, for him and for his heirs and executors and administrators, does hereby covenant to and with the said Mortgagee and his heirs and assigns, that the said Mortgager is being lawfully possessed of the said goods and chattels as of his own property; that the same are free from all incumbrances, and that he will warrant and defend the same to him the said Mortgagee, and his heirs and assigns, against the lawful claims and demands of all

Provided, nevertheless, that if the said Mortgagor shall pay a certain promissory note of seven hundred dollars, bearing even date with the above, given for one year, at eight per cent. interest, then this mort-gage to be void, otherwise to remain in full force and effect.

And provided further, that until default be made by the said Mortgagor in one performance of the condition aforesaid, it shall and may be lawful for him to retain the possession of said goods and chattels, and to use and enjoy the same; but if the same, or any part thereof, shall be attached or claimed by any other person or persons, at any time before payment, or the said Mortgagor, or any person or persons whatever, upon any pretense, shall attempt to carry off, conceal, make way with, sell or in any manner dispose of the same, or any part thereof, without the authority and permission of the said Mortgagor or his without the authority and permission of the said Mortgagee, or his heirs, executors, administrators or assigns, in writing expressed, then it shall and may be lawful for the said Mortgagee, with or without assistance, or his agent or attorney or heirs, executors or administrators, to take possession of said goods and chattels, by entering upon any premises wherever the same may be, whether in this County or State or elsewhere, to and for the use of said Mortgagee, his heirs and assigns. And if the moneys hereby secured, or the matters to be done or performed at the time and according to the conditions above set forth, then the said Mortgagee, or his attorney or agent, or his heirs, executors, administrators or assigns, may, by virtue thereof, and without any suit or process, immediately enter and take possession of said goods and chettise and sail and dispasse of the carea. goods and chattels, and sell and dispose of the same at public or private sale, and after satisfying the amount due, and all expenses, the surplus, if any remain, shall be paid over to said Mortgagor, or his heirs and assigns. The exhibition of this Mortgage shall be sufficient proof that any person claiming to act for the Mortgagee is duly made, constituted and appointed agent and attorney to do whatever is above authorized.

In witness whereof, the said Mortgagor has hereunto set his hand and seal, this eighteenth day of January, in the year of our Lord one thousand nine hundred.

Signed, Sealed and Delivered) in Presence of HENRY BROOKS.

E. L. GATTSHALL.

ASSIGNMENT OF MORTGAGE.

The indorsement and transfer of a note secured by a mortgage transfers the security also, but in order to prevent the mortgagee from releasing to the prejudice of the assignee of the note it is always safest to have a written assignment of the mortgage made and recorded. In some States the assignment can be made upon the back of the mortgage and recorded. For such States the following assignment is the usual form. See Form I.

In other States, such as Illinois, the assignment should be by formal separate instrument, duly executed and acknowledged in the same manner as mortgages and the same filed for record. Form 2 is the usual form for such assignments.

Form 1.

KNOW ALL MEN BY THESE PRESENTS, That I, Henry Betzold, the within named Mortgagee for a consideration of eight hundred dollars (\$800), hereby assign, transfer, and set over unto E. B. Neeman, his heirs and assigns, the within named instrument of mortgage, and all the real estate, with appurtenances therein mentioned and described, to have and to hold the same forever. Subject nevertheless to the equity and right of redemption of the within named A. Meyer, his heirs and assigns therein.

In witness whereof the party of the first part has hereunto set his hand and seal this third day of March, in the year of our Lord nineteen hundred

and one. Sealed and Delivered in)

the Presence of E. E. HAWTHORN. HENEY BETEOLD. [Seal.]

Form 2.

KNOW ALL MEN BY THESE PRESENTS, That I, James Y. Scammon, of Chicago, Cook County, Illinois, party of the first part, in consideration of fifteen hundred (\$1,500) dollars, lawful money of the United States, to me in hand paid by Henry Jones, of the same place, party of the second part, do hereby sell, assign, and transfer unto the said party of the second part, his heirs, executors, administrators, and assigns, a certain indenture of mortgage bearing date the first day of January, 1897, made by Samuel P. Smith, and Sarah E. Smith, his wife, and all my right, title and interest in and to the premises therein described as follows, to-wit: The southwest quarter of Section 21, Township No. 38, north, Range 11 east, of the 3d Principal Meridian; also lots Nos. 1, 3 and 5, in Block No. 19, in Scofield's Addition to the Village of Naperville, situated in the County of Du Page, and State of Illinois, which said mortgage is recorded in the Recorder's office of Du Page County, Illinois, in book 25 of mortgages, on page 100, together with notes therein described, and the money to come due thereon with all interest thereon.

Interest thereon. To have and to hold the same unto the party of the second part, his executors, administrators, and assigns forever, subject only to the proviso in said indenture mortgage contained. And I do for myself, and my heirs, executors, and administrators, covenant with the party of the second part that there is now actually due and owing on said note and

mortgage on principal and interest the sum of sixteen hundred (\$1.00) dollars, and that I have a good right to assign the same, and I do hereby constitute and appoint the said party of the second part my true and lawful attorney irrevocably in my name or otherwise, but at his own proper costs and charges to have, use, and take all lawful ways and means for the recovery of said money and interest, and in case of payment to discharge the same as fully as I might or could do if these presents were not made.

In witness whereof I have hereunto set my hand and seal this 13th

day of May, A. D. 1901. JAMES Y. SCAMMON. [Seal.]

RELEASE.

A mortgage on real estate is released by deed of a lease under seal, and acknowledged, or receipt of satisfaction of the debt entered upon the margin of the record of mortgage by mortgagee.

Whenever a mortgage is paid a proper release thereof should be made, signed and acknowledged by the mortgagee and the same recorded. In some States the indorsement of satisfaction and cancellation on the face of the mortgage authorizes the recorder or register of deeds to enter satisfaction thereof upon the records; in others a formal release must be executed and acknowledged by the mortgagee and recorded, or a release may be entered upon the margin of the record of the mortgage in the recorder's office. The important thing, however, is to see that the record in the proper office shows the satisfaction of the mortgage. The methods of so doing differ in the various States, but the general rule is as above stated.

The following form of a release of mortgage is the one commonly in use in Illinois, and is a form which will effectually release a mortgage in any State, although more formal than those required by some of the States:

Form of Release.

KNOW ALL MEN BY THESE PRESENTS, That I, James Y. Seam-KNOW ALL MEN BY THESE PRESENTS, That I, James Y, Scammon, of the County of Cook, and State of Illinois, for and in consideration of one dollar, to me in hand paid, and for other good and valuable considerations, the receipt whereof is hereby confessed, do hereby grant, bargain, remise, convey, release and quitclaim unto Samuel P. Smith and Sarah E. Smith, of the County of Du Page and State of Illinois, all the right, title, interest, claim or demand whatsoever I may have acquired in, through or by a certain indenture or mortgage deed, bearing date the first day of January, A. D. 1901, and recorded in the Recorder's office of Du Page County, Illinois, in book 25 of mortgages, page 100, to the premises therein described, and which said deed was made to secure two certain promissory notes, bearing even date with said deed, for the sum of twenty-five hundred dollars.

Witness my hand and seal this 28th day of February, A. D. 1901.

JAMES Y. SCAMMON. [Seal.]

FORECLOSURE OF MORTGAGE.

In case the mortgager fails to meet the conditions of the mortgage, the mortgage to secure his interests may foreclose the mortgage; that is, cut off the mortgagee from redeeming the mortgaged property by a judgment of court.

Methods of foreclosure vary in different States, but the general features are: Application to court of chancery for authority to foreclose; notifying of the mortgagor; hearing the parties; reference to a master in chancery; advertising the property; selling it to the highest bidder at the specified time; deeding it to the purchaser, and paying over any surplus funds to the mortgagor.

CERTIFICATE OF ACKNOWLEDGMENT.

For Deeds, Mortgages, Assignments of Mortgages and Releases.

Deeds, mortgages, assignments of mortgages, and releases must all be acknowledged before a proper officer. The certificate must be made by both man and wife when married.

Form 1, for Chattel Mortgages.

STATE OF ILLINOIS, } ss.

I, John Richard, a Justice of the Peace in the Town of Dundee, in and for the said County, do hereby certify that this mortgage was duly acknowledged before me by the above named therein named, and entered by me this 17th day of July, 1901.

Witness my hand and seal. (Seal.)

JOHN RICHARD, Justice of the Peace.

Form 2, for Assignments and Releases.

STATE OF ILLINOIS, COUNTY OF DU PAGE. } 88.

f, John Smith, a Notary Public in and for said County, and in the State aforesaid, do hereby certify that James Y. Scammon, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this 13th day of May, 1901. (Notarial Seal.)

Notary Public.

Notary Public.

Form 3, for Mortgages and Deeds.

COUNTY OF DU PAGE. \ 88.

I, John Smith, a Notary Public in and for said County in the

Smith, his wife, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed, and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth, including a release and waiver of all rights under and by virtue of the homestead exemption laws of this State.

Given under my hand and Notarial Seal this first day of January, A. D. 1991.

JOHN SMITH, (Notarial Seal.)

On the _____ day of _____ in the year one thousand nine hundred and _____, before me personally came (name of both parties), who are known to me to be the individuals described in, and who executed the foregoing instrument, and acknowledged that they executed the same. (Signature.)

BAIL.

r. Bail means sureties who bind themselves either to atisfy the plaintiff, his debt and costs, or to surrender the defendant into custody, provided judgment is rendered against him in the action. The above definition applies to civil action. In criminal cases bail means the sureties who bind themselves to have the prisoner present in court when required for trial. In ordinary parlance the word bail is used as synonymous with the word surety and practically means the same thing. We shall treat the subject in its relation to civil matters under the law of suretyship. In criminal matters the subject not being germain to the purpose of this book is not further discussed.

BONDS.

r. A bond is defined to be an obligation in writing under seal. It is a form of contract which is almost infinite in variety. The parties to the bond are the obligor and the obligee, the former being the one who makes the promise and the latter the person to whom the promise is made.

A simple bond is an instrument for the payment of money at a certain time, and generally bears interest at the rate specified in the bond. Nearly all corporate and municipal bonds are of this character and contain no condition except for the payment of the amount of the bond at a certain time and place with a certain specified rate of interest. Frequently interest coupons are attached to the original bond providing for the payments of several installments of interest as they come due.

The following is the form commonly in use for such bonds:

UNITED STATES OF AMERICA. JEFFERSON CITY, STATE OF MISSOURI. RENEWAL SCHOOL BOND. INTEREST 5 PER CENT., PAYABLE SEMI-ANNUALLY.

The Board of Education of the City of Jefferson, County of Cole, and State of Missouri, being legally organized under and pursuant to an act of the General Assembly of the State of Missouri entitled "An act to revise and amend the Laws in relation to Public Schools in Cities. Towns and Villages," approved April 26th, 1877, for value received promise to pay to the bearer ten years after the date hereof ONE THOU-SAND DOLLARS, at the St. Louis National Bank, in the City of St. Louis, Missouri, and interest thereon at the rate of Five per centum per annum from the date hereof, which interest shall be payable semi-annually at said St. Louis National Bank in the City of St. Louis, Missouri, on the surrender of the proper interest coupons hereto attached. This bond shall be redeemable at the pleasure of the said Board of Education of the City of Jefferson at any time after the expiration of Five years from the date hereof, and is issued under and pursuant to an act of the General Assembly of the State of Missouri, entitled "An Act to authorize Board of Education to issue renewal funding School Bonds to be sold or exchanged for the purpose of meeting and paying matured or maturing bonded indebtedness of school districts, and for levying special tax to pay the bonded indebtedness of school districts," approved April 11th, 1877.

In Testimony Whereof: the said Board of Education has caused this bond to be signed by the President, countersigned by the Secretary, authenticated by the seal of said Board of Education and attested by the Clerk of the County Court of said County of Cole, with the seal of said Court affixed this First day of July, 1901.

JOHN JONES, President. WM. SMITH, Secretary. GEO. SMILEY, Clerk County Court.

2. Bonds of Public Officials conditioned for the faithful performance of certain things are almost of infinite variety and in common use. All State, county, town and city officers having in their hands moneys or funds of any character belonging to said corporation are required to give bonds for the proper performance of the duties of their office. The following form of a bond of city treasurer can be used with few slight changes for almost any office:

KNOW ALL MEN BY THESE PRESENTS, That we, John Jones, Henry Smith, and Charles Marshall of the City of Naperville, County of Du Page, and State of Illinois, are held and firmly bound unto the City of Naperville in the penal sum of Twenty Thousand (\$20,000) Dollars, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, and administrators jointly and firmly by these presents.

Witness our hands and seals this 14th day of July, 1900.

The condition of the above obligation is such that whereas the above bounden John Jones has been duly elected to the office of City Treasurer of the City of Naperville, Now if the said John Jones shall faithfully perform all the duties of said office and shall account for and pay over all moneys that may come into his hands as such Treasurer, according to law, and the ordinances of said City and the order and direction of the city council of said City, then this obligation to be void, otherwise to remain in full force and effect.

JOHN JONES, HENRY SMITH, (Seal.) (Seal.) CHARLES MARSHALL. (Seal.)

3. Officers of Corporation are generally required to give bonds for the faithful performance of their duties. The following form can be used for nearly all such bonds:

KNOW ALL MEN BY THESE PRESENTS, That we, James Lord, John Williams, and Charles Smith, are held and firmly bound unto the Naperville Manufacturing Company, a corporation duly organized under the laws of the State of Illinois, in the penal sum of Ten Thousand (\$10,000) Dollars, good and lawful money of the United States for the payment of which, well and truly to be made for said corporation or its assigns, we bind ourselves jointly and severally by these presents.

Witness our hands and seals this 14th day of July, 1901.

The condition of the above obligation is such that whereas the above bounden has been elected President of the Naperville Manufacturing Company; Now Therefore, if the said James Lord shall well and truly perform the duties of his said office and shall account for and pay over all moneys that shall come into his hands as such President, according to the rules of said corporation and the order and direction of the board of directors thereof, then this obligation shall be void, otherwise to remain in full force and effect.

JAMES LORD, JOHN WILLIAMS, CHARLES SMITH.

4. Indemnifying Bonds.—Bonds are also frequently given to indemnify persons who incur liability for another in nearly all the walks of life. The following form may be used:

KNOW ALL MEN BY THESE PRESENTS, That William Marsh, Principal, and John Henry, Surety, are held and firmly bound unto John Jones in the penal sum of One Hundred (\$100) Dollars lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, and administrators, jointly, severally and firmly by these presents.
Witness our hands and seals this 1st day of June, A. D. 1901.

The condition of the above obligation is such that whereas the said John Jones has been surety for the above bounden William Marsh on his note for One Hundred (\$100) Dollars, payable to the order of Charles William, due on one year from the date hereof, with interest at the

rate of 6 per cent. per annum.

Now, Therefore, if the said William Marsh shall well and truly pay the said note with all interest thereon when the same comes due and shall from time to time and at all times hereafter save, keep harmless and indemnify the said John Jones of and from all actions, suits, costs, charges, damages, and expenses whatsoever, including attorney's fees which shall or may at any time hereafter happen or come to him for any reason, by reason of his becoming surety on said note, then this obligation to be void, otherwise to remain in full force and effect.

WILLIAM MARSH, (Seal.) JOHN HENRY.

5. Executor's Bond.—Executors, administrators, guardians and conservators are required to enter into bonds to be approved by the proper court before they are allowed to enter upon their duties as such. The forms for such bonds, however, vary in the different States.

WILLS AND LAWS OF WILLS.

- 1. A will is a legal statement of what a person determines to have done with his property after his death.
- 2. The maker of a will is called a testator; if female, testatrix.
- 3. There are two kinds of wills, written and verbal or nuncupative.
- 4. Nuncupative wills depend upon proof of persons hearing the same. They are usually unsafe and even when there is definite testimony at hand may result in expensive litigation.
- 5. The wishes of the testator should be fully and clearly expressed in a written will.
 - 6. No exact form of words is necessary to make a will.
- 7. In writing wills simple language should be used. Statements concerning every provision or condition of the will should be fully and plainly made.
- 8. All persons of sound mind and memory, of lawful age, freely exercising their own will, may dispose of their property by will. In some States a married woman cannot make a will without consent of her husband.
- 9. "Lawful age" is in most States twenty-one years, in both male and female; in some States a female is of lawful age when eighteen years old; in some States persons may dispose of personal property by will at the age of seventeen.
 - 10. A will has no force or effect until after testator's death.
 - II. The last will annuls all former wills.
- 12. A wife cannot be deprived of her dower, which is a life interest in one-third of her husband's real estate, by will, but in some States taking any interest in her husband's property by virtue of his will bars her dower.
- 13. Subsequent marriage by female revokes will made while single in some States.
- 14. Testator's property is primarily liable for testator's debts and funeral expenses, which must be paid before any part of it can be distributed to legatees.
 - 15. A will is good, though written with a lead pencil.
- 16. A person who is competent to make a will can appoint his own executor. If the person so appointed is legally competent to transact business, the probate court will confirm the ap-

pointment. The person so appointed is not obliged to serve.

- 17. It is not necessary that the witnesses should know the contents of the will. It is generally necessary that testator acknowledge to them that it is his will, sign it in their presence, or acknowledge the signature already signed to be his, and request them to sign as witnesses; they should sign as witnesses in the presence of each other.
- 18. Testator should write his own name in full. If unable to do so, his hand should be guided by another, and his name written, or a mark made near his name.

The following is the usual form where testator signs by mark

John X Smith.

- 19. An addition to an executed will is called a codicil.
- 20. The same essentials apply to a codicil as to a will.
- 21. Legacies to subscribing witnesses are generally declared void by the statute.
- 22. To convey real estate by will, it must be done in accordance with the law of the State where such land is located.
- 23. Personal property may be conveyed in accordance with the law where the testator resides.
- 24. An executor is a person named in the will of a deceased person to settle his or her estate; there may be one or more.
- 25. An administrator is one appointed by the court to settle the estate of a deceased person.

The Form of a Will.

I, John Smith, of the Village of Naperville, County of Du Page, and State of Illinois, being of sound mind and memory, do make, publish and declare this to be my last will and testament, to-wit:

First—All my just debts and funeral expenses shall be first duly paid.

Second—I give, devise and bequeath all the rest, residue and remainder of my estate, both real and personal, to my beloved wife, Susie E. Smith, to have and to hold to her, my said wife, and to her heirs and assigns forever.

Third-I nominate and appoint my said wife, Susie E. Smith, to be the executor of this my last will and testament, hereby revoking all former wills by me made.

In witness whereof I have hereunto set my hand and seal this 15th day of November, A. D. 1902. JOHN SMITH. (Seal.)

Signed, sealed, published and declared as and for his last will and testament by the above named testator, in our presence, who have, at his request, and in his presence, and in the presence of each other, signed our names as witnesses thereto.

Most States require two witnesses. Some States require three.

INFORMATION FOR EXECUTORS AND ADMINISTRATORS.

An executor is named in a will to execute that will and settle the estate. If the will does not name an executor, or if named, he will or can not act, the Probate Court (some states Surrogate, others Orphans' Court) appoints an "administrator with the will annexed." If a person dies without leaving a will the court appoints an administrator, whose duty is the same as that of an executor, except that he, having no will of the deceased, distributes the property as the law directs.

The duties of an executor are: First. To see that the deceased is suitably buried, avoiding unreasonable expense if the estate is insolvent. Second. To offer the will for probate, or proving; to conform to the laws of his state and rules of the sourt, the clerk of which will give full instructions. Third. To make and return to the court within required time an inventory of the property. "Real estate lying in another state need not be inventoried, for that must be administered upon in the state where it lies; but personal property situated in another state should be inventoried." If the real estate is encumbered, it should be described. Fourth. To collect the property, pay the debts and dispose of the remainder as the law and will, or either, directs. Generally the debts should be paid as follows: 1. Funeral expenses. 2. Expenses of last sickness. 3. Debts due the United States. 4. Debts due the state. 5. Claims of creditors. Fifth. To render the accounts as directed by the court.

Commissioners are generally appointed to hear the claims of all within a limited time. An appeal from their action may be taken to the court. If no appeal, the executor pays the legacies, etc., makes final accounts which are submitted to a hearing, and if no objection, the estate is closed. If the executor dies before the estate is closed, his executor has no authority over the first estate. Another is appointed to complete the execution.

The law provides that the widow of the intestate shall be first entitled to act as administrator; next, the nearest of kin who are competent; next, any creditor who will accept the trust; and lastly, any other suitable person.

Executors and administrators are required to take an official cath; also to give a bond which is usually for double the amount of the estate.

EXECUTOR'S OR ADMINISTRATOR'S BOND.

KNOW ALL MEN BY THESE PRESENTS, That I, Charles D. Mann of Ira in the County of Rutland and State of Vermont, as principal, and Benj. E. Merrill of Poultney and N. Wright Emerson of Wells in the County of Rutland aforesaid, as sureties, are holden and firmly bound unto the Probate Court for the District of Rutland (in some states, unto the People of the State of———), in the sum of Eight Thousand Dollars, to be paid unto the said Probate Court, to the which payment well and truly to be made, we bind ourselves, and each of our heirs, executors and administrators, jointly and severally, firmly be these presents, signed with our hands and sealed with our seals.

Dated at Rutland, in said District, this fifteenth day of September, A. D., 1906.

The condition of the above obligation is such, That if the above bounden Charles D. Mann, Executor of the last Will and Testament of John I. Merritt late of Fair Haven in the County of Rutland and State of Vermont, deceased. shall make and return to the Probate Court within three months a true and perfect inventory of all the goods, chattels, rights, credits, and estate of said deceased, which shall come to his possession or knowledge, or to the possession of any other person for him; and also all other goods, chattels, rights. credits and estate of said deceased, which shall any time after come to his possession, or the possession of any other person for him; and shall well and truly administer the same and pay and discharge all debts, legacies and charges chargeable thereon, or such dividends thereon as shall be ordered and decreed by said Probate Court; render a true and just account of his administration to said Court, within one year, and at any other time when required by said Court, and perform all orders and decrees of said Probate Court by Executor to be performed in the premises—then the above obligation is void, otherwise in force.

Signed, sealed and delivered in presence of H. Max Webber, Clerk of County Court. CHARLES D. MANN. (L. S.) BENJ. E. MERRILL. (L. S.) N. WRIGHT EMERSON.(L. S.)

Some States require acknowledgment as below.

RUTLAND COUNTY, 88.

At the session of Probate Court in and for said County, holden at Rutland, on the eighteenth day of September, A. D., 1906, I have examined and do approve of the foregoing bond, and order the same to be filed and recorded in the Probate Office of said County.

M.T. GUTELIUS.

Judge of Probate.



LEAVING FOR AMERICA.

NATURALIZATION.

- 2. Definition.—Naturalization is the act by which an alien is made a citizen of the United States.
- 2. How Secured.—An alien to become a citizen of the United States must have resided therein five years before making his final application. At least two years before his admission he must declare on oath before the clerk of some court of record in the State in which he resides his bona fide intention to become a citizen of the United States and renounce forever all allegiance and fidelity to any foreign Prince, Potentate, State, or Sovereignty, and particularly by name to Prince, Potentate, State, and Sovereignty of which the alien may be at the time a citizen and subject.
- 3. Final Papers.—At the time of securing his final papers he must declare on oath before some court of record having common law jurisdiction that he will support the Constitution of the United States; that he absolutely and entirely renounces and abjures all allegiance and fidelity to every foreign Prince, Potentate, State, and Sovereignty of which he was a citizen and a subject.
 - 4. Residence.-It must also be made to appear to the

satisfaction of said court that he has resided within the United States five years at least, and within the State where such court is at the time of application one year at least, and that during all that time he has behaved himself as a man of good moral character in accordance with the principles of the Constitution of the United States, and well disposed to the good order and happiness of the same. This last proof is usually made by the affidavit of two witnesses who have known the applicant for at least five years prior to the time of such application.

- 5. Hereditary Title. In case the applicant has borne any hereditary title or been of any of the orders of nobility in the kingdom or state from which he came, he must, in connection with the above requirements, make an express renunciation of his title or order of nobility in the court in which his application is made.
- 6. Signed Petition Required.-Before an applicant can secure his final papers he must make and file in duplicate a petition in writing signed by himself and duly verified in which he shall state his full name, place of residence, occupation, etc. Such petition must be filed not less than two nor more than seven vears after the declaration of intention.
- 7. Must be Able to Speak the English Language.-An alien to be admitted as a citizen of the U.S. must be able to speak the English language. This requirement does not apply to those who are physically unable to comply therewith, nor to such who declare their intention to become citizens and who make homestead entries upon the public lands of the U.S. and comply with the laws governing same.
- 8. Enemies of Government.-Anarchists, polygamists, and all other enemies of organized government can not be naturalized or become citizens of the U.S.
- o. Declaration of Intention under Old Law.-Aliens who made declaration of intention prior to Sept. 27, 1906, but were not naturalized before that date under the old law must comply with the requirements of the new law in regard to the filing of petition for naturalization and furnishing proof except that they will not be required to speak the English language or to sign petition in their own handwriting.
- 10. Fees.—For receiving and filing a declaration of intention and issuing a duplicate, \$1.00. For making, filing and docketing the petition for admission as a citizen, \$2.00. For entering the long order and issuing certificate of citizenship, \$2.00.

QUALIFICATIONS FOR SUFFRAGE, VOTING, ETC.

Requirements for Citizenship and for Voting.

S	Requirements as to Citizenship.	Residence in		
STATES.		State.	County.	Precinct.
Alabama (a) Arkansas (c) Califor a(h) (i) Colorado (b) Connecticut (a) Delaware (a) Florida (b) Georgia (c) Illinois (a) Indiana (c) Indiana (c) Indiana (d) Kansas (d) Kansas (d) Kantucky (d) Louisiana (o) (d) Maryland (b) Massachusetts (d) Michigan (a) Minnesota (a) Minnesota (a) Minnesota (a) Mississippi (ll) (b) Mostana (b) Mostana (c) North Dakota (d) North Dakota (d) Ohio (d) North Dakota (d) Ohio (d) Rhode Island (a) South Carolina (a) Rhode Island (a) South Carolina (a) South Carolina (a) Cregon (a) Crego	Citizenship. Citizen or declared intent. Citizen or declared intent. Actual citizens. Citizen or declared intent. Actual citizens. Citizen or declared intent. Actual citizens. Actual citizens. Actual citizens. Citizen or declared intent. Citizen or declared intent. Citizen or declared intent. Citizen or declared intent. Citizens. Citizens. Citizens. Citizens. Citizens or declared intent. Citizen or declared intent. Citizens Actual citizens Citizen or declared intent Actual citizens Actual citizens Citizen or declared intent	State. 2 yr 1	County. 3 mo. 6 mo. 90 days. 90 days. 90 days. 90 days. 6 mo. 3 mo. 6 mo. 30 days. 60 days. 60 days. 30 days. 6 mo. 1 yr. 3 mo. 6 mo. 6 mo. 6 mo. 6 mo. 1 yr. 3 days. 30 days. 6 mo. 1 yr. 6 mo. 6 mo. 6 mo. 1 yr. 1 yr. 3 mo. 6 mo. 90 days. 6 mo. 6 mo. 6 mo. 90 days. 6 mo. 90 days. 6 mo. 90 days.	Precinct. 1 mo 20 days. 10 days. 10 days. 10 days. 20 days. 10 days. 30 days. 10 days. 30 days. 10 days. 4 mo 30 days. 20 days. 30 days. 10 days. 30 days. 4 mo 30 days. 2 mo 6 mo 4 mo 10 days. 2 mo 6 do days.
Virginia (a Virginia (a Washington (a West Virginia (c Wisconsin (d Wyoming (a Arizona (x) Actual citizens Actual citizens Citizen or declared intent Actual citizens Citizen or declared intent Citizen	1 yr 2 yr 1 y	3 mo 1 yr 90 days 60 days 10 days 60 days	30 days 30 days 10 days 10 days 10 days

⁽a) Registration required by law. (b) Required by constitution. (c) Prohibited by constitution. (d) Required in large cities. (e) No registration required. (x) Mayor and city council have power to require registration. (o) Educational qualification (read the constitution in the English language), or own property assessed for not less than \$300, or voter on Jan. 1, 1667, or descendant of such voter, or a foreigner naturalized prior to Jan. 1, 1898. (h) Citizen 90 days before election. (÷) Bigamists disqualified. (i) Native of China disqualified. (ii) Educational qualification by which voter is required to read and understand constitution. (r) Women may vote at school elections. In California, Colorado, Idaho, Utah, Washington and Wyoming women are entitled to full suffrage, having the same rights to vote as men. Illinois has limited suffrage, women being allowed to vote for all except constitutional offices.

offices.

PASSPORTS.

Passports are permissions granted by the Government to its citizens, commending them to the protection of foreign countries which they may visit. They are issued only by the Secretary of State.

To Whom Granted.—They are issued only to citizens of the United States on written application. Blank forms of application can be secured by applying to the Secretary of State, Washington, D. C.

Wife, Minor Children, and Servants of an American citizen may all be included in the citizen's passport. Any other person requires a separate passport.

Applications.—A citizen of the United States desiring to procure a passport must make a written application in the form of an affidavit to the Secretary of State.

Naturalized Citizens.—A naturalized citizen must transmit his certificate of naturalization, or a duly certified copy of the court record thereof, with his application. He must state in his affidavit when and from what port he emigrated, what ship he sailed in, and where he has lived since his arrival in the United States.

Professional Titles are not allowed in passports.

Expiration.—A passport expires two years from the date of its issuance. A new one can be obtained upon a new application.

Fee.—A fee of \$1 is required to be collected for every citizen's passport, and must be paid in currency or postal money order. Drafts or checks will not be received.

Blank Forms will be furnished on application if it is stated whether they are for native or for naturalized citizens.

Address all communications to "Department of State, Passport Division, Washington, D. C." A passport should always be carried upon the person—never in a trunk or valise.

PATENTS.

nean the granting by the United States to inventors for a limited time the use of their own inventions. The instrument by which this privilege is confirmed to the inventor is called the "Letters Patent" and is issued in the name of the United States

of America under the seal of the Patent office and is signed by the Secretary of the Interior, and countersigned by the Commissioner of Patents.

- 2. For What Granted.—Patents are granted for any new and useful machine, manufacture, or composition of matter, or any new and useful improvement thereon not known and used by others in this country and not patented or described in any printed publication in this or any foreign country before its invention and discovery here, and not in public use or on sale for more than two years prior to the application for a patent. Every civilized country in the world has taken out patents in the United States.
- 3. Foreign Patent Not a Bar.—A person is not debarred from receiving a patent for his inventions or discoveries by reason of its first having been patented in a foreign country unless the same has been introduced into public use in the United States for more than two years prior to the application therein.
- 4. Duration of Patent.—A patent is good for seventeen years, but now cannot be extended except by act of Congress. Inventions previously patented in a foreign country must expire at the same time that the foreign patent expires, but in no case shall they be extended more than seventeen years.
- 5. How Secured.—The method of securing patents is by petition, which must be in writing addressed to the Commissioner of Patents, and must state the name and residence of the petitioner requesting the granting of a patent, designating by title the invention sought to be patented, and contain a reference to the specifications for a full disclosure of such invention and must be signed by the applicant and attested by two witnesses. An alien may obtain a patent on the same terms as a citizen.
- 6. Specifications.—The specifications above referred to are a written description of the invention or discovery, and the manner of making, constructing, composing, and using the same, and they are required to be in such full, clear, concise and exact terms as to enable any person skilled in the art or science to which the invention or discovery appertains to make, construct, compose and use the same.

The specifications and claims should be absolutely written

on but one side of the paper. All interlineations and erasures should be avoided.

7. The Oath.—The applicant for a patent must make oath or affirmation that he verily believes himself to be the first and original discoverer of the art, machine, manufacture, composition, or improvement for which he solicits a patent; that he does not know and does not believe that the same was ever before known and used and shall state of what country he is a citizen and where he resides.

The oath should be sworn to before a notary public or some other officer authorized to administer oaths having an official real

- 8. Drawings.—The applicant for patent is required also furnish drawings for his invention whenever the nature of the case admits. The drawing must be signed by the inventor and must be attested by two witnesses; it must show every feature of the invention covered by the claims. When the invention is an improvement on some old machine the drawing must exhibit in one or more views the invention itself disconnected from the old structure and also in another view so much of the old structure as will suffice to show the connection of the invention therewith.
- 9. Material.—Drawings must be made upon pure white calendered, smooth, bristol board paper, of three sheet thickness. India ink alone must be used, sheets must be exactly ten by fifteen inches in size. Drawings must be made with pen only, and must be absolutely black. Drawings must be made with the fewest lines possible consistent with clearness.

The scale to which a drawing is made must be large enough to show the mechanism without crowding.

- 10. Signature of the inventor should be placed at the lower right hand corner of each sheet of drawing and two attesting witnesses should sign at the lower left hand corner. Drawings should be rolled for transmission to the patent office.
- 11. Model.—A model must be furnished when required by the commissioner.
- 12. Specimens must be furnished when required by the commissioner.
 - 13. Attorneys.—The practice of the patent office allows

the applicant to retain an attorney and when the petition is prosecuted by an attorney a power of attorney should be included in the petition. In ordinary cases it is always best to retain some experienced patent attorney to prosecute the application.

- 14. Caveats.—A caveat, under the patent law, is a notice given to the Patent Office of the caveator's claim as inventor, in order to prevent the grant of a patent to another person for the same alleged invention upon an application filed during the life of the caveat without notice to the caveator.
- 15. Object.—A caveat sets forth the object and the distinguishing characteristics of the invention, and prays protection of the inventor's right until he shall have matured his invention. Such caveats are filed in the confidential archives of the office and preserved in secrecy, and are operative for the term of one year from the filing thereof.
- 16. To Whom Granted.—A caveat is granted to any citizen of the United States or any alien, if he has resided in the United States one year next preceding the filing of his caveat, and has made oath of his intention to become a citizen.
- 17. Renewal.—The caveat may be renewed, on request in writing, by the payment of a second caveat fee of \$10, and it will continue in force for one year from the date of the payment of such second fee. Subsequent renewals may be made with like effect.
- 18. Fees.—The schedule of fees and prices of publications can be had on application to the Commissioner of Patents, Washington, D. C. The fee for filing applications ranges from \$10 to \$30; for filing each caveat \$10. For any other information concerning patents address the commissioner as above.
- 19. Preliminary Examinations.—Applicant for patent can save considerable expense oftentimes by having a preliminary examination of the patents allowed by the patent office made to determine whether or not the invention has been patented by somebody else. This examination cannot be made by the commissioner or any one of his office, but patent attorneys will make the examination for a small fee.
- 20. Assignments.—Patents may be assigned in whole or in part, and the right to manufacture, sell and use the patent

in any county, State, township or other district may be granted by the holder of the patent. All such assignments or transfers should be in writing, and are void unless recorded in the Patent Office within three months from their date.

PENSIONS.

- 1. Pension Office.—The Commissioner of Pensions has charge of this office. Pension agents are required to give bonds. They receive a commission of 2 per cent. on all money paid out by them to pensioners, and a fee of thirty cents on every voucher prepared and paid by them. In paying pensions the agent is authorized to deduct the attorney's fees for aiding the pensioner. Pension surgeons receive \$1,800 a year; the medical referee \$2,500.
- 2. Applications.—The first step to be taken by an applicant for pensions is to file a declaration before any officer having authority to administer oath, setting forth the ground upon which he claims a pension.
- 3. Blank Forms can be obtained by applying to the Commissioner of Pensions, Washington, D. C. Proof of declaration by at least two competent witnesses is required.

PENSIONS OF THE SEVERAL WARS AND OF THE PEACE ESTABLISHMENT.

The amounts that have been paid for pensions to soldiers, sailors and marines, their widows, minor children and dependent relatives, on account of military and naval service since the foundation of the government to June 30, 1911, are as follows:

War of the Revolution (estimate)	\$ 70,000,000.00
War of 1812 (service pension)	45,853,024.19
Indian Wars (service pension)	11,192,205.52
War with Mexico (service pension)	45,279,686.83
Civil War	3,985,719,836.93
War with Spain and insurrection in Philippine	
Islands	34,142,976.37
Regular establishment	21,705,852.33
Unclassified	16,488,147.99
-	

Total disbursements for pensions\$4,230,381,730.16

Pension Bureau service:

NAT A D	WITH	SPAIN-	GENER	AT.	LAWS.

Army invalids822
Army widows845
Navy invalids 60
Navy widows 28
6. Highest and Lowest Pensions Paid.—Highest pension
paid (to widows of Presidents), \$5,000 per annum. Lowest pension
paid, \$6 per annum.
7. Total Annual Pensions.—The amount disbursed solely
for army and navy pensions for each of four successive years has
been as follows:
1907\$141,464,522.90 1909\$164,826,287.50
1907\$141,464,522.90 1909\$164,826,287.50 1908155,894,049.63 1910162,631,729.94

 Salaries of Pension Bureau
 \$2,657,673.86

 Fees of surgeons
 747,497.80

 Total
 \$3,405,171.66

It is safe to say that all of these amounts will be practically exhausted.

LICENSE.

Definition.—License is a right or permission given by competent authority which without such authority would be illegal.

Licenses are of almost infinite variety and are issued by the National Government to distillers, brewers, liquor dealers of all kind, cigar manufacturers and dealers in many other articles. They are also issued by States, by counties, and also by cities, towns and villages to peddlers, hawkers, hackmen, draymen, bus drivers, cabmen, porters, expressmen, and itinerant merchants. They are also issued to saloons and druggists.

License from the National Government to a saloon keeper does not, however, authorize him to sell liquors in violation of any city or State statute, and constitutes no protection for so doing.

Licenses of the character hereinbefore named are issued usually under what is called the police power of the State, and are governed by rules peculiar to that power.

Licenses to liquor dealers and cigar manufacturers are issued by the Government upon application to the local internal revenue collector.

The following is a form of license commonly in use in cities, towns and villages for peddlers, hackmen, cab drivers, and other individuals requiring license from such authorities:

BY AUTHORITY OF THE CITY OF CHICAGO

Permission is hereby given to John Henry to keep for use or hire two Hacks or Carriages in the City of Chicago, State of Illinois, from July 1, 1901, to June 30, 1902, under the ordinances in such case made and provided, subject, nevertheless, to revocation or suspension by the mayor or City Council.

Witness the hand of _______, Mayor of said City, and the Corporate Seal thereof, this 1st day of July, 1901.

Mayor.

ATTEST:

(Corporate Seal.)

......City Clerk.

A LIST OF FOURTEEN OF OUR LARGEST TRUSTS.

1	Capital Stock.
American Can Co., New York	
American Tobacco Co., Jersey City	
Amalgamated Copper Co., New York	, ,
American Woolen Co., Boston	
American Sugar Refining Co., Jersey City	
American Smelting & Refining Co., New York	
Corn Broduct Co., New York	
Central Leather Co., New York	80,000,000.00
International Harvester Co., Chicago	140,000,000.00
National Lead Co., New York	50,000,000.00
Standard Oil Co., New York	100,000,000.00
U. S. Rubber Co., New York	65,000,000.00
U. S. Steel Corporation, New York	950,000,000.00
U. S. Smelting, Refining & Mining Co., Boston	75,000,000.00

Total Capital Stock Common and Preferred. \$2,228,000,000.00

The capitalization of these trusts has been increased from year to year so that the combined capital stock of these fourteen trusts has been more than doubled in ten years. It is true that according to a decision of the U.S. Supreme Court in 1911 the Standard Oil Co., the American Tobacco Co. and the U. S. Steel Co., the three greatest and most dangerous trusts, were dissolved, but without any apparent effect on their power. They have raised prices and watered stock since this decision just as they did before.

Insurance.

- Definition.—A contract whereby, for an agreed premum, one party undertakes to indemnify the other against loss on a specified subject by specified perils. The party agreeing to make the indemnity is called the insurer, or underwriter, the other the insured or assured. The agreed consideration is called the premium. The written contract is called the policy. The subject, right or interest to be protected is called the insurable interest.
- 2. Forms.—The most usual forms of insurance are Fire. Uife, Marine and Accident insurance.
- 3. Insurable Interest.—The insurer must always have an asurable interest in the subject matter of the insurance Such an interest has been defined to be any interest in property or relation thereto or liability in respect thereof of such a nature that a contemplated peril might directly damnify the insured.
- 4. Corporations.—All kinds of insurance are carried on by large corporations. These corporations in this country are usually organized under general laws and are conducted under the supervision and control of the State authorities. There are, however, scattered through the country a large number of mutual companies. These companies also are organized under special statutes governing the same and the stockholders are also in general the insured. In most of the States an insurance department has been established and the management and supervision of insurance both life and fire is under the control of this department, which is generally managed by an officer called either a superintendent or commissioner of insurance.
- 5. Foreign Insurance Companies are generally required to deposit a certain amount of funds in this department in each State as a security for the payment of losses on all insurances carried by them in said State. Companies doing business in any State are required to make annual reports to the insurance department of their business and of the character and quality of their assets.
- 6. Authority.—The insurance department also has authority to examine into the business of any company and in case

of weakness require that any losses and failure of assets or made good, and in case of insolvency they have authority to take possession of this company and wind up the business.

- 7. Suits.—All foreign insurance companies are also required to designate some individual living within the State upon whom legal process can be served. Suits against insurance companies by statute in most of the States can be commenced in any county where the party having claims against such company resides and service of summons can be had on the proper agent in any county of the State.
- 8. Fire Insurance is Furnishing Indemnity Against Lose by Fire.—It is now generally conducted by large private corporations or by mutual companies.
- 9. Mutual Companies.—These mutual companies are generally established by statute and provide for the payment of losses by a pro rata assessment upon the policy holders, who constitute the stockholders and who manage the affairs of the company. Some of these mutual companies require a small premium paid in advance. Others simply require a small fee to pay for the expense of making the survey and issuing the policy. All of them, however, in case of a loss make an assessment pro rata upon the policy holders to pay the same. Such companies are not very common in cities, but are quite genera throughout the rural districts.
- vate corporations generally called Line Companies is carried on through the country by means of agents established in nearly every town and city of any size throughout the country. Many of the States have adopted a standard form of fire policy and nearly all reputable companies have adopted forms which are similar in their terms and conditions.
- ally divided into commercial, dwelling house and farm risks. The time for which commercial risks are usually written is for a year, although on the very best class of buildings a three-year risk is permitted. Risks on stocks of goods and machinery are always limited to one year. The rate for the three-year term is two and one-half times the annual rate.

Dwelling house and farm risks are usually written for one,

three and five years, the three-year term being twice the annual rate and the five-year term three times the annual rate.

- 12. Boards .- The old line insurance companies of the country are nearly all united into a National Underwriters' Association which has general charge of the fire insurance business of the country. Under this national board the old line companies doing business in each State have an underwriters' association which has charge of the insurance business in the State. In nearly every town or city of any size the agents of the respective companies are also organized into local boards. The agencies of the different companies are all required by an iron-bound contract to maintain the rates of insurance fixed by the State board of underwriters, and violations of the provisions of this contract are punished by heavy fines. By these agreements agents of the different companies are prohibited from cutting rates or offering inducements to secure insurances and they are limited to a fixed rate of the premium as their commission. Nearly every town of any size in the respective States is rated, that is the rates of insurance upon all the commercial buildings and the stocks contained therein are fixed and a rate sheet issued to the agents of all companies doing business in the town. This rating is not done by the local agents of the company living in the town or city, but is done by agents appointed by the State board of underwriters and sent there for the purpose.
 - 13. Assignment of Policy.—The policy of insurance cannot be assigned except with the consent of the insurance company. Notice of all change in the title to property covered by insurance, whether personal or real, should immediately be given to the local agent of the company carrying the insurance and the consent of such agent to the assignment secured.
 - 14. Mortgage Clause.—In case of mortgage on real property the loss should be made payable to the mortgagee as his interest may appear by mortgage clause, which is usually printed on a separate sheet of paper and attached to the policy.
 - 15- Loss.—In case of loss under an insurance policy notice should be immediately given to the company or its agent and a request made for a form of proof of loss. These forms are usually furnished by the company gratis, and the provisions of the policy in regard to making proof of loss should be strictly followed

- **16.** Lightning Clauses.—An ordinary policy of insurance does not usually insure against lightning, but lightning clauses without extra expense will be attached to nearly all policies if requested at the time of issue.
- on by large corporations and benevolent orders having insurance departments connected therewith. The forms of policies are almost infinite. They differ from fire insurance in that they extend for life or for a definite period of years. The premium is required to be paid either annually or semi-annually.
- 18. Applications.—Nearly all life insurance companies require applications therefor to be in writing and they are usually accompanied by a medical examination made by the Local Medical Examiner of the company. These applications are forwarded to the home office, and if the same pass the head Medical Examiner the policy is issued to the insured and the application is made a part of the policy. Any false statement contained therein will vitiate the policy and applicants for insurance should be careful to see that all questions are fully and truthfully answered. Most life insurance policies provide that the insurance shall not be in force until the first premium is paid, and most policies are now incontestable after the payment of two or three premiums. By the laws of some of the States in case default is made in the payment of premium after three full premiums have been paid, the policy holder may have the option of securing a paid up policy for a certain portion of the original risk, and nearly all good companies now insert an option of this character into their policies. Sometimes the policies provide that after the payments cease the applicants shall be entitled to three or four years' paid-up insurance.

The usual clauses contained in life insurance policies are these: That the insurance ceases unless the premiums are promptly paid; that the company shall be exempt if the insured commits suicide whether sane or insane, or if death shall come by the hands of justice for a violation of law; that agents are not authorized to alter or discharge any part of the contract; that assignments of the policy shall not take effect until notice thereof shall be given to the company at its home office; that after two years the policy will be incontestable except for fraud or non-payment of premium.

ro. Marine Insurance.— Marine insurance is governed largely by the same rules that control fire insurances. The risks insured against, however, are losses at sea, and are usually under taken for the voyage which the vessel is supposed to make. The voyage should be described in such a manner that a man conversant with the usages of the trade shall clearly understand what voyage was intended and the voyage must be rigidly adhered to.

Subject matter of insurance is usually the body of the ship, tackle, apparel and furniture thereof, or upon all kinds of goods, merchandise laden or to be laden on board the ship, or upon the freight upon all kinds of goods, merchandise laden or to be laden on board the ship.

- 20. Beginning of the Risk.—The risk begins from and immediately following the loading upon the ship.
- 21. Termination of the Risk.—The risk does not terminate until the ship has moored anchor twenty-four hours in good safety, or until the goods and merchandise have been safely anded.

The insurance may also be against the perils of the sea. This includes all casualties resulting from the unusual or violent actions of the elements. Against foundering at sea; against grounding, collision, distress of weather, fire, perils of war, rests and restraints, jettison, and all other perils and losses and mis fortunes of the sea.

- 22. Accident Insurance is not yet fitty years old, but at present there are a great many companies which insure against all kinds of accidents. Policies good for one day, insuring for \$3,000, can be had at almost any railroad station upon the payment of twenty-five cents. Upon the payment of larger sums policies can be had good for any time from one day to ten years.
- 23. Other Kinds of Insurance.—Almost every kind of risk imaginable may now be covered by insurance. There are companies that insure merchants against loss by bad debts, contractors against accident to employes, and employers against fraud or insolvency of their servants.

NOTE—The great Chicago fire of 1871, causing a loss of more than two hundred millions, involved loss to the insurance companies amounting to ninety-six millions, all of which, except six millions, was in the United States companies. Fifty-seven companies were compelled to suspend. The loss by the Boston fire of 1872 was fifty million dollars.

ASSOCIATIONS FOR TRANSACTING BUSINESS.

PARTNERSHIPS, HOW FORMED AND LAWS GOVERNING THEM.

- 1. Partnership is a voluntary contract between two or more persons, to place their property, labor or credit, or some or all of them, in some lawful business, to share the gains and losses in certain proportions.
- 2. Where no time is specified, any partner may dissolve a partnership at will.
 - 3. The death of any partner dissolves the whole firm.
 - 4. Each partner has full authority to act for the firm.
- 5. A silent partner is one who is actually a partner by participation of profit, but is not known to be such.
- 6. A nominal partner is one who holds himself out to the world as such, but is not so in fact. He becomes liable to creditors of the firm because he justifies them in trusting the firm on his credit.
- 7. Partners may agree to share the profits in whatever proportion they choose. They may also agree as to any way of dividing the losses. Such agreement is valid between themselves, but it will not protect those partners who were to sustain no loss from responsibility to third parties.
- 8. Not only the common property, but also all the private property of each partner may be taken, to satisfy the debts of the firm.
- 9. Upon the dissolution the old partners are responsible to third persons for even new debts, unless such persons have had notice of the dissolution.
- 10. One partner may discharge himself from liability by giving express notice to any customer or other person not to trust one or more of his co-partners.
- 11. A partner cannot make the firm responsible for his separate or private debt, nor bind the firm by entering into engagements unconnected with, or foreign to, the partnership.
- 12. The authority of a partner extends to the making or indorsing negotiable paper, and to all transactions fairly connected with that business.

- 13. A person who after due care lends money to one of a partnership firm for the firm, can hold the firm liable, although the money is fraudulently appropriated by the partner. to his own use.
- 14. If a partner borrows money to increase the capital of the firm, the firm cannot be held liable for the payment of such sum.
- 15. The contract of co-partnership may be made verbally or in writing. It is a serious engagement and easier to get into than to get out of. Every person should use great care in involving his property and business interests in a co-partnership, and where those interests are extensive, articles of copartnership drawn by the best qualified lawyer available are the safest expedient, and will in all cases be a good investment

Articles of Co-partnership.

ARTICLES OF AGREEMENT, made December 3d, 1901, between John

H. Wagner and Gregory Ross:

The said parties hereby agree to become co-partners, under the firm name of Wagner & Ross, and as such partners to carry on together the business of buying and selling all sorts of dry goods, at No. 547 Fulton

street, in the city of Brooklyn.

The said John H. Wagner agrees to contribute two thousand dollars (\$2,000) to the capital of said firm; and the said Gregory Ross agrees to contribute one thousand dollars (\$1,000) to the same; the sum of \$2,500 of said capital to be expended in the purchase of a stock in trade.

The said Wagner shall have exclusive charge of all the buying for

the firm.

All the net profits arising out of the business shall be divided in the following proportions, two-thirds to the said Wagner and one-third to the said Ross.

Each partner shall devote all his time, attention, and efforts to the

said business.

Neither partner shall, without the consent of the other, sign any bond, bill or note as surety, or otherwise become obligated as security for any other person.

Witness the hands and seals of the parties hereto, this 1st day of January, A. D. 1902.

.....(Seal.)

Agreement to Dissolve Partnership.

We, the undersigned, do mutually agree that the within mentioned partnership be, and the same is, hereby dissolved, except for the purpose of final liquidation and settlement of the business thereof, and upon such settlement wholly to cease and determine.

Witness our hands and seals, this twenty-ninth day of May, nineteen hundred and one.

Signed, Sealed and Delivered in Presence of

Harvey C. Chester. Porter L. Fields.

JOHN H. WAGNER. (SEAL.)

BEUBEN H. HOWARD. (SEAL.)

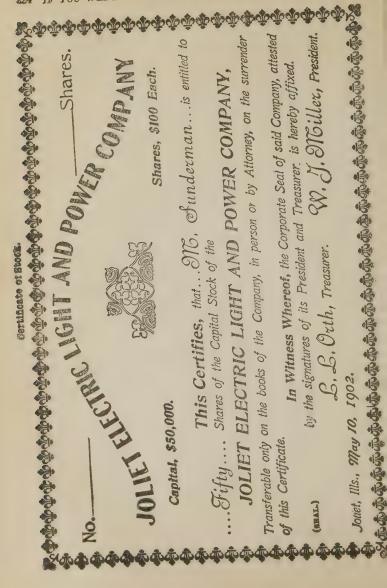
CORPORATIONS AND STOCK INVESTMENTS.

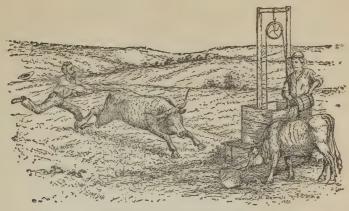
- 1. An Incorporated Company is an association authorized by law to transact business. It is a fictitious person that can sue or be sued.
- 2. Stocks are divided into parts called shares, and the owners of the shares are called stockholders.
- 3. Certificates of Stock are written statements specifying the number and value of the shares to which their holders are entitled. They are often called scrip.
- 4. Par Value of the stock is the sum named on the tace of the certificate, and is thence called its nominal value; the market value is the sum for which it sells. When shares sell for their nominal value, they are at par; when they sell for more they are above par, or at a premium; when they sell for less, they are below par, or at a discount.
- 5. Gross Earnings of a company are its entire receipts; the net earnings are the sums left after deducting all expenses.
- 6. Installments are portions of the capital paid by the stock-holders from time to time. Dividends are portions of the earnings distributed among the stockholders. They are usually paid at stated periods; as annually, etc.
- 7. Kinds.—Corporations may be divided into corporations for pecuniary profit, as banks, insurance companies, loan associations and railroad companies; corporations not for pecuniary profit, as religious organizations.
- 8. Public Corporations are those formed for the public interest, as towns counties, cities, etc. A municipal corporation, for example, makes laws for the government of the city and for improvements in general.
- 9. Private Corporations are generally formed for the benefit and pecuniary profit of the members; as banks, railroad companies, mining companies, electric lighting, trolley companies, etc.
- 10. Close Corporations are those whose members fill by appointment all vacancies occurring in their membership.
- Open Corporations are those in which vacancies are filled by other individuals or bodies; for example, a college whose trustees are elected by the different legislative bodies of a church.
- 12. State Laws.—In most of the States general acts of izcorporation have been passed under which companies may or-

ganize, without the necessity of special legislation in each case. Since the adoption of the present constitution in 1870, all corporations in Illinois have been organized under general statutes.

- 13. Limited Companies.—In some States, notably in New York and Pennsylvania "Limited" companies may be formed. Where this law prevails, "Limited" signifies that each shareholder is individually liable for the stock that he holds. In case of suit action can be taken against him only to the extent of shares held. Limited companies are also formed in Canada, but in many states the law makes no provision for such companies.
- 14. How Laws Differ.—Private corporations organized under the laws of one State are usually permitted to do business in another. This suggests the reason why many of the large stock companies of New York and Philadelphia are organized under the laws of the State of New Jersey, where laws are more favorable to the companies. It is said that a large majority of the merchants and large business enterprises of Boston are organized into stock companies under the laws of Maine, because Massachusetts requires a large part of the capital to be paid up when the company is organized, while Maine permits the organization of a company for \$100,000, not a single stockholder being a resident of the State, and requiring a paid up capital of only twenty-five dollars.
- 15. Methods of Organization.—The methods of organization vary in the different States as to details, but in general are the same. In Illinois any number of persons not less than three, nor more than seven, may form a corporation by filing with the Secretary of State a statement giving name of corporation, object, amount of capital stock, number of shares, location of office, and duration of corporation. This statement must be signed and acknowledged as deeds are acknowledged. A license is then issued to open subscription books. As soon as the stock is subscribed for, a meeting is held and directors, not less than three or more than eleven, are elected.
- 16. Elections.—Each stockholder is entitled to as many potes as he has shares of stock, multiplied by the number of directors to be elected. This is in accordance with the cumulative system in vogue in general elections in Illinois.

- 17. Charter.—Upon receipt of information giving names of directors, etc., the Secretary of State issues the Charter, which must be recorded in the county office.
- 18. Fees.—In Illinois the fees charged are as follows, and must be paid when the first papers are filed with the Secretary of State: For a capital of \$2,500, \$30; over \$2,500, and not over \$5,000, \$50; and one dollar per thousand for every thousand above \$5,000.
- 19. Corporations and Partnerships.—A corporation differs from a partnership in two particulars: First, it cannot exist except by authority of State and National Legislature. Second, the private property of the stockholders cannot be taken for the debts of the corporation, unless the statutes of the State so declared when the charter was granted.
- ac. Advantages.—The advantages of corporations over part nerships have made a great change in all lines of business. Every business of any magnitude is at once formed into a stock company. There are very few partnerships existing today, because the laws are more favorable to corporations. Some of these advantages are: (1) Security of the private property of stockholders; (2) facilities for borrowing money are increased; (3) a retiring stockholder is no longer responsible for debts of the company; (4) change of stockholders exceedingly more simple than change of partners; (5) limited power of stockholders—a partner may do what a stockholder has no power to do.
- 21. A Question.—For large enterprises corporation laws have been a great benefit, but when the stock company finds adoption by all kinds of enterprises, with capital ranging from \$1,600 upward, we may properly inquire into the motives of such organization. It is hardly just to plead an advantage to business for a small mercantile enterprise with \$2,000 capital. There are in such cases usually some personal reasons.
- 22. Preferred Stock.—This kind of stock takes preference of the ordinary stock of a corporation, and the holders are entitled to a stated per cent. annually out of the net earning before a dividend can be declared on the common stock. Preferred stocks are generally the result of reorganization, although sometimes issued in payment of floating or unsecured debts.

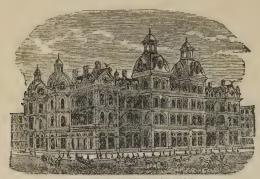




HOLDING AND WATERING STOCK.

- 23. How Stock is Watered.—Sometimes the charter of a corporation forbids the declaring of a dividend exceeding a certain per cent. of the par value of its stock. In this case the directors may find it desirable to "water" the stock—that is, issue additional shares. This increase in the number of shares of course reduces the percentage of dividend, although the same profit in the aggregate is secured to the stockholders.
- 24. Guarded Action.—Great care and good judgment should be used in the purchase of shares of stock, for bad management, dishonesty and contention have ruined many prosperous corporations and stock companies.
- 25. Investments.—With the remarkable increase in the wealth of our nation there is a corresponding increase of persons who desire to make secure investments. There never was a time in the history of the world when it was so easy to invest money and to lose it. A good investment today does not mean a good investment next year. The possibilities of new discoveries have greatly reduced the profits of some stock companies. The electrical company has taken away the large profits of the gas company; the telephone competes with the telegraph, the trolley with the railroad. Great care should be taken in making an investment. Corporations may be burdened with bonds and mortgages. The first and main thing in making

investments is safety. Many persons have believed their investments absolutely safe and have waked up to see the earnings of a lifetime vanish like distant clouds.



NEW YORK STOCK EXCHANGE.

BOARDS OF TRADE AND STOCK EXCHANGES.

Boards of Trade and Stock Exchanges were originally organized to facilitate trade in the various commercial interests of the country; they are great factors in financial circles. There is no reason why these institutions should not prove very beneficial to the financial interests of our nation.

Gambling.—Unfortunately, however, the business of nearly all stock exchanges is not confined to the legitimate; instead of blessing and benefiting mankind they have become gigantic engines of robbery and oppression. The confidence of the public has been shaken, and they are generally looked upon as gambling institutions.

Members are elected by ballot, the admission fee varying greatly in different organizations. In New York, where the membership is about 1.100, a vacant seat brings from \$20,000 to \$50,000. In London the membership is not limited.

Number.—There are many exchange institutions in the country. Besides those in large cities, in other trade centers are found produce exchanges, cotton exchanges, mining exchanges, etc.

Dealing in Futures.—This is simply a "high-toned" form of gambling, or, in other words, a system of "market guess

ing" in which the best guesser wins. The game, like all other popular gambling games, is exceedingly simple. You simply bet on the market; if it goes up or down, you win or lose just as you have staked your money.

Margins are sums of money put up as a forfeit to secure the winner. When the margin is exhausted so that further loss is not guaranteed, it is the custom to close the trade and the winner "rakes in the pot," using the gambler's way of putting it.

Option Trading.—"Seller's option" gives the person selling the privilege of making delivery at any time before the expiration of the contract by giving one day's notice. "Buyer's option" gives the purchaser a claim for delivery at any time before the maturity of the contract.

Corners.—Thousands of bushels of grains are bought and sold for every bushel brought to the elevators. Chicago Board of Trade sells every day as much wheat as the State of Illinois harvests in a year. It can then be easily seen how "commerce" can be forced. In a Board of Trade each buyer buys upon the supposition that each seller is selling what he has not got, and the buyer is buying what he does not want. Now it is easy for a set of men with an unlimited amount of money to combine and "corner" any article in the market. It simply consists of buying more than can be delivered, and then making the sellers deliver or forfeit their margins.

Bull and Bear.—A "bull" is one who operates to raise the market—so called from the nature of the bull to toss with his horns. A "bear" is one who tries to lower the market, so called from the nature of the bear to tear down with his claws.

Lame Duck.—In stock-broker's slang, a "lame duck" is a member unable to fill his contracts, and he is therefore expelled.

Bucket Shops .- These are Boards of Trade and Stock Exchanges for the boys and poor clerks, generally kept by a broken down broker who lost all his self-respect with his fortune. Here the poorest can try his luck in betting upon the markets. These shops are not reliable; they doctor the markets with false figures and deceive and take in whoever falls into their power. They are demoralizing gambling dens and in no way can they be safely trusted. There are thousands of these counterfeit concerns throughout the country.

A Syndicate is a party of capitalists who unite their resources to make successful some financial enterprise where large capital is required.

TRUSTS.

- 1. Trusts are combinations formed for the purpose of restricting competition and controlling trade.
- 2. Object.—The object is to secure to a limited number of persons engaged in the manufacture or handling of a certain article absolute control of the market for that article, so that the organization is able to name prices and profits as well.
- 3. Supply Too Great.—If the supply is too large, certain of the mills or factories or refineries in the association are closed, and the owners can make no objections, because they are partners in the scheme, and are sure of their dividends on two or three times the capital they had invested in their former business. Reducing the production only makes their dividends more certain.
- 4. Result.—The results are that the consumer pays the increased profits of the bogus capital of the corporation, and the producer has to accept for his products just what the managers of the "trust" choose to pay.
- 5. Robbery.—It is organized robbery, and nothing else, and should be treated by our courts the same way as any other stealing.
- 6. Laws Enacted.—Laws have been enacted by Congress and by some of the States against trusts, and stringent punishment has been decreed against combinations to control prices. Strange as it may seem, these laws are ineffective and in no way check the accumulation of wealth by existing combines, or the formation of new organizations of the kind.
- 7. Court Decisions.—The courts have also declared the existence of trust combinations to be unlawful, but in the face of these decisions they continue to exist and multiply in numbers.
- 8. New Jersey.—Many of these combinations have been formed under the laws of the State of New Jersey, though little or none of the business is done in that State. New Jersey laws are peculiarly lax with regard to corporations, granting them unlimited license in conspiring against the public welfare.

COMMERCIAL AGENCIES.

- 2. The Credit System.—One of the greatest hindrances to successful business interests is the credit system. From the small country grocery to the largest wholesale house, one of the most perplexing questions is whom to trust. Merchants would gladly sell goods on credit if there were always a certainty that the goods would be paid for. Many large business houses have been compelled to go into bankruptcy because they extended credit to unworthy men.
- 2. Early Efforts.—As early as 1837 a mercantile agency was organized in New York, whereby the mercantile interests of the nation might be protected from great losses brought about through the credit system.
- 3. First Agency.—The efforts of this first agency were bent on collecting information concerning the financial standing of business men in New York and vicinity, that the largest merchants might have at least an estimate of the character and responsibility of those with whom they dealt.
- 4. Increasing Trade.—With the rapid increase of trade there was a corresponding increase in applications for credit. Laws for the collection of debts were then, as now, on the statute books, but were of little benefit to creditors.
- 5. First Reference Book.—The first reference book, giving information concerning the financial standing of merchants, was published about 1840, and although small was reliable.
- 6. Competition.—The success of the first agency soon brought competing agencies into the field, and while the information extended over a much greater territory, it lacked in reliability.
- 7. Present Status.—The two noted agencies today that aim to give information covering our whole nation are Dun & Co. and Bradstreet, both of New York.
- 8. Object.—The object of the commercial agency as it exists today is to give reliable information concerning business men throughout the country.
- 9. Methods.—This information is obtained from local correspondents and is published four times a year. Although subscribers to these reports pay a good, round sum for them, they are, nevertheless, good investments, for through them merchants generally know at once whom to trust

- 10. Aim.—The reports from these agencies aim to give the mature of the Business, Locality, Capital, Assets and Liabilities, Character, Experience, Economy, Honesty, Ability, Industry, Punctuality, Amount of Business, etc., of each merchant.
- 11. Difficulties.—Some of the difficulties with which these agencies must contend in obtaining reliable reports are, incompetency of correspondents, carelessness and indifference, personal favoritism or prejudice. As local reporters get little or no pay the time is not given to it that it should have.
- 12. Efficiency.—There are over 1,000,000 business firms in the United States, and these agencies give information concerning them all.
- 13. Value.—While commercial agencies are the outgrowth of the credit system, they have been the means of greatly extending credit, so that at present credit is given very liberally in our country. The commercial agency alone has made this possible.

BUILDING AND LOAN ASSOCIATIONS.

These associations are formed by a number of persons joining together in the investment and loaning of money, for their mutual benefit. In these associations are found the Investor and the Borrower. The Investor simply invests his money in installments, and receives it back with the profits when the stock matures. The Borrower is also a member of the association, and must subscribe for stock at least equal to the amount of his loan. He pays for his stock and repays his loan in monthly installments. Thus a man owning a lot can obtain the money to build a house, and repay it in installments costing him a trifle more than ordinary rent. When his stock matures his house is paid for and belongs to him.

These associations are a blessing to many who have by economy secured homes of their own.

Although the State laws are stringent, yet many of these associations through bad management have failed.

The best associations are those that do a local business. The so-called "nationals" are frequently fraudulent schemes.

Any member can withdraw at any time, but the stock that matures makes the greatest percentage of profit.



A BIPLANE
Popular Type of a Modern Air Ship

TRANSPORTATION.

With the development and increase of trade and the settlement of the vast areas of our western plains there has been a corresponding increase in facilities for transporting mail, money, and merchandise, as well as the conveying of passengers from one point to another. The slow ox-cart, the tow-boat on the canal, and even the more speedy horse and wagon have yielded to the modern, rapid and convenient powers of steam and electricity. Although the speed of transportation has been greatly increased, the expense has been reduced.

- 1. Improved Methods.—With improved methods of transportation, distance is no longer an impediment to the exchange and transportation of fruits, vegetables and other perishable goods. The fruit and vegetable grower of Michigan can now successfully compete with the gardener residing just outside of the largest city, because of rapid yet cheap transportation.
- 2. **Government Control.**—The question of government control of transportation agencies is one of great importance since the growth of our cities tends to increase the gains of larger dealers at the expense of the smaller, and the control of the market by the larger dealers tends to the amassing of wealth by the few.

MERCHANDISE.

indiscriminately for all persons. These include all stage coach proprietors, railroad companies, truckmen, wagoners, teamsters, carmen, porters and express companies who hold themselves out to carry goods from one portion of the country to another, from one town to another, and from one place in the same town to another for all persons who desire to employ them.

2. Responsibility.—Common Carriers are responsible for all loss and damage caused by transportation from whatever cause, except the act of God and public enemy, and they are bound to carry all goods which are offered them, and if they re-

fuse without just excuse they are liable to an action.

3. Act of God is held to extend only to such inevitable accidents as occur without the intervention of man's agency. The carrier is not responsible for losses occurring from natural causes, such as frosts, fermentation or natural decay of perishable articles, or the necessary and natural wear in the course of transportation, provided he exercises all reasonable care to have the loss or deterioration as little as practical.

4. Loss by Fire.—The carrier is liable for any and all

loss occasioned by accidental fire.

5. Perishable Goods.—Carriers are not responsible for loss to fruits that decay in their possession or goods shipped in defective boxes, such as glassware not properly packed and other articles that are easily broken. Goods must be properly packed in order to make the carrier responsible.

- 6. Bill of Lading.—Bill of lading is the receipt given by the Common Carrier to the owner of the goods desiring to have the same shipped and should contain a description of the quantity, the marks on the merchandise, the name of the shipper, or the person sending the goods, and the consignee, the name of the person to whom the goods are shipped, place of departure and place of discharge of the goods and the price of freight, and also weight of the separate packages and the number of the car in which the same were shipped.
- 7. Equal Liability.—Railroad companies and other carriers who allow express companies to carry parcels and packages on their cars or other vehicles are liable as the Common

Carriers for all damages which occur, without regard to the contract between them and such express company.

- 8. Baggage.—In the transportation of the baggage of passengers the liability of the carrier for loss to the same is the same as in case of transportation of goods for hire, and in case of loss the carrier must make it good.
- 9. When Liability Begins and Ends.—The responsibility of the Common Carrier begins upon the delivery of the goods for immediate transportation. A delivery at the usual place of receiving freight or to the employes of the company in the usual course of business is sufficient. The responsibility of the carrier terminates after the arrival of the goods at their destination and sufficient time has elapsed thereafter for the owner to have received them during business hours. After the expiration of such time the responsibility of the carrier is simply that of a warehouse man and he is only required to keep the goods with ordinary care.
- to, Different Lines.—Where goods are shipped to points beyond the line of the carrier to whom they are first delivered, such carrier is not responsible beyond his own portion of the route unless he gives bills of lading for the entire route and the contract contemplates the transportation and delivery of the goods at their destination.
- companies for not unloading goods from their cars within the time fixed by the rules of the companies. The rules of a large number of railroad companies require that the car be unloaded within twenty-four hours after its arrival at the destination and a fixed rate of demurrage for each twenty-four hours of delay after the expiration of the usual time for unloading is imposed on the persons to whom goods are shipped. In practice companies are not very strict in enforcing this penalty, unless they are unable to meet the demand for cars.
- 12. Express Companies.—These are private corporations that transport the more valuable and smaller articles. Although the charges are higher than by freight, yet the better, safer and more rapid transit of goods makes these companies desirable and gives them a very large patronage. The principal companies are Adams Express, American Express, Wells-Fargo Express, United States Express, Pacific Express, and Southern

Express. Express companies carry much of the money from one point to another. The special care of valuable parcels makes this method as safe as it can be.

TRANSPORTATION BY WATER.

Common Carriers.—Those engaged in the transportation of goods and passengers in ships are Common Carriers. The same rules and principles apply to Common Carriers by water as apply to those on land, with one or two exceptions Common Carriers of goods are practically insurers of the safe delivery of goods at their destination.

DAMAGES RECOVERABLE FOR UNREASONABLE DELAY IN FORWARDING BAGGAGE.

The measure of damages recoverable for a Common Carrier's unreasonable delay in forwarding a passenger's baggage is the value of the use of the property to owner during the delay in delivering it. As to what that value is, the opinion of persons familiar with the facts, together with the facts and conditions, will be considered. It would be difficult in such cases to determine the value of use by a mere statement of the facts, And the opinion of persons having a knowledge of the facts. Though some evidence, is not an absolute guide, but an assistance, which is available in the absence of more reliable proof. Gulf C. & S. F. Ry. Co. v. Vancil; C. Civil Appeals, 21 S. W. Rep. 303.

LIABILITY OF COMMON CARRIERS FOR LOSS OR INJURY TO FREIGHT.

A Common Carrier must pay the market value, at the point of destination, of all property intrusted to it for transportation, which, through its fault, is lost or destroyed, and is not delivered. The law, also, is that if a carrier receives property for transportation, and delivers it at the end of its route, but through its fault it is damaged, and it fails to deliver it in the same condition as when received, it must pay the difference between the value of the property in its damaged condition, at the point of destination, and what the value of the property would have been at that place if delivered in the same condition as when it was received for transportation. New York, L. E. & W. R. Co. v. Estill; 13 Sup. Ct. Rep. 444.

HOW TO SEND MONEY.

Bank Drafts.—A draft on some reliable bank is by far the best and most business-like way to send large amounts of money. It is safe, convenient, and cheap.

Better, however, have the draft issued in your favor (to your own order), and then indorse it, and make it payable to the party to whom you intend to send it.

Post Office Orders.—By Post Office Order is also a safe and reliable way to send money. It costs a little more than to remit by draft, but is equally as secure, and many times more convenient, because the Post Office is accessible at all hours of the day.

Registered Letters.—Registered Letters are reasonably safe since the Government exercises special care in their transmission and in case of loss indemnifies the owner up to Twenty-five Dollars. Formerly the Post Office Department could not be held responsible for the loss of a registered letter, but in the second session of the Fifty-fourth Congress a bill was passed making the department responsible to an amount not greater than Ten Dollars. This law was later amended and the extent of liability increased to Fifty Dollars, and that law is now in force.

Express Orders.—The Express Order, as to security, has all the advantage of the Bank Draft or Post Office Order. Unlike the Post Office Orders, they are paid through the Clearing Houses of the principal cities, being current as exchange thereon; moreover, they are good, practically, everywhere, payment not being confined to any one place, but, on identification, are available everywhere. A receipt is always given the remitter, and loss of money is practically impossible.

Personal Checks.—Never send money by your personal check, unless you are rated in commercial agencies. It may cause much delay in having it certified. There is also generally expense connected with the cashing of the check. This may be charged to your account. To avoid these annoyances, pay only your local bills with personal checks.

Telegraph.—It is sometimes necessary to send money by telegraph. Although this is more expensive it is sometimes convenient. The rate is one per cent. of the amount of the order, plus double the tolls on a single message of fifteen words between the transfer places.

TRANSPORTATION OF MAIL.

Post Office.—The name Post Office originated in the posts placed at intervals along the roads of the Roman Empire where couriers were kept ready to bear dispatches and intelligence.

Early Times.—The first letter post was established in the 13th century. In early times both public and private letters were sent by messengers. Before 1639 postal facilities in the colonies were simply those afforded by personal accommodation

Monthly Mail.—In 1672, the government of New York established a monthly mail to Boston; later this, as well as mails to other points, were carried weekly.

First Post Master General.—Benjamin Franklin was appointed First American Postmaster General, July 26th, 1775.

Cost.—The entire cost of the Post Office Department from 1783 to 1833 was \$34,700,000; revenue \$36,400,000; up to 1853 the department was self-sustaining; since then there has been an annual deficit, except one year during the Civil war and in 1911 there was a surplus of \$219,118.12. Annual expenditure now exceeds \$237,000,000.

Postal Union.—Under the regulation of the universal Postal Union a letter may now be carried to almost any place in the civilized world for five cents. Every five years representatives of the different nations meet in the "Universal Postal Congress," and discuss and agree upon improvements in the system.

TRANSPORTATION OF PASSENGERS.

It is stated that in 1797, when the first extra session of Congress was called, one member from the west did not arrive in Philadelphia—then the Nation's capital—until after Congress had adjourned. Comparing the modes of travel of colonial days with the great speed of the elegantly furnished palace car of today, there can be no denial that we are a fast people.

Rates.—The usual local passenger rates are 2 and 3 cents a mile. Through tickets to principal terminal points are lower Mileage books good for 1,000 miles are sold for two cents a mile. These can legally be used only by the purchaser, but deception is often practiced whereby different persons use the same ticket. In most of our large cities ticket scalpers are found who buy and sell tickets at reduced rates. Some states have laws prohibiting these scalpers from doing business

THE BUSINESS MAN'S DIGEST OF LAWS.

PRESUMPTIONS OF LAW PERTAINING TO BUSINESS PAPERS.

- 1. Law Takes Things for Granted.—The law takes certain things for granted in connection with negotiable paper, and these things are accepted as true, unless proper evidence proves them to be false.
- 2. A Valuable Consideration.—Paper is always considered as having been given for a valuable consideration, unless the contrary can be shown.
- 3. The Holder of the Paper is Considered the Owner.— The holder of paper is regarded as the owner so long as no suspicious facts are shown in connection with his ownership.
- 4. Received Before Maturity.—It is presumed that the holder received the paper before maturity until it is proven to have been transferred after it was due.
- 5. Possession in the Course of Business.—The nolder is regarded as having come into possession of the paper in the course of his business, and for value, unless good evidence disproves these presumptions.
- 6. Indorsements Before Maturity.—Indorsements are supposed to have been made before maturity, unless it clearly appears otherwise.
- 7. Maker and Indorser's Liability.—The maker of a note is considered as the first debtor, and the indorsers are looked upon as conditionally liable.
- 8. Acceptor of a Draft the First Debtor.—The acceptor of a draft is presumed to be the first debtor, and the drawer and indorsers to be only liable in the event of his failure to meet the obligation.
- 9. Negotiable Paper Means Just What It Says.—The law presumes that negotiable paper means just what it says, and evidence is not permitted to prove that it does not.
- 10. Mistake in the Amount.—If a mistake is made in stating the amount, evidence is allowed to correct it.
- 11. Time.—The time of negotiable paper, however, cannot be changed by outside evidence.

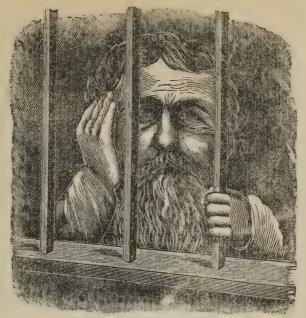
THE LAW GOVERNING FORGED PAPER.

- 1. Forgery.—Any material alteration made on commercial paper with intent to defraud is forgery.
- a. A Forged Instrument.—A forged instrument is not commercial paper, for it represents neither a contract nor property, and no rights whatever are gained by its possession or transfer. The paper is worthless except as evidence against the forger.
- 3. No Responsibility.—The person whose name is forged cannot be made responsible. The act is not his, and one certainly should not be held responsible for another's acts which are entirely unauthorized and without notice.
- 4. The Purchaser of Forged Paper.—It makes no difference how careful or honest one is who takes forged paper; no matter what the consideration may be, the paper itself is worthless, and one who sells it to another in reality sells nothing. The one who buys forged paper, however, may recover what he paid for it from the one from whom he bought it, because it was money paid under mistake. The person who took the paper from the forger must always bear the loss, unless he can recover the money from the person who committed the forgery.
- 5. Raising the Amount.—Paper is sometimes forged by erasing the amount named in the genuine paper and putting in a larger amount. The paper is then perfectly good for the priginal sum, but wholly worthless as to the amount raised. Example: If a check is drawn for \$5 and it is raised to \$50, the signer of the check will only be held for \$5, and whoever takes the check for \$50 will lose the \$45, unless he can secure it from the forger.
- 6. Caution.—Never buy a paper from a stranger, unless he can show evidence of legitimate business transaction with the person or persons whose papers he desires to transfer.

LAW ON OPENING LETTERS.

A person who opens letters belonging to another which have been in the possession of the post-office authorities, before they reach the possession of the person to whom directed, the letters being opened for the purpose of abstracting their contents, or of obtaining information concerning the affairs of another, is liable to a fine of \$500 and imprisonment for one year. It makes no difference as to relationship.

KNOW SOMETHING OF EVERYTHING.



"THE WAY OF THE TRANSGRESSOR IS HARD."

TERMS AND FACTS OF CRIMINAL LAW.

- 1. The Rule, "Every man's house is his castle" applies only to civil cases. Any locked door of the house may be forced open to arrest a criminal.
- 2. Every Man is compelled by law to obey the call of a sheriff for assistance in making an arrest.
- 3. Embezzlement is a fraudulent appropriation to one's own use of what is intrusted to one's care, and can only be charged against a clerk, servant, or agent.
- 4. The Offense of Stealing cannot be lawfully settled by receiving back stolen property.
- 5. Bigamy cannot be proved in law if one party to the marriage has been absent and not been heard from in five years.
- 6. Petit Larceny is where the value of the property stolen is less than \$15. Grand larceny is when the value of the property stolen exceeds \$25.

- 2. Arson is the burning of an inhabited building by night
- 8. Drunkenness is not a legal excuse for crime.
- 9. Assault and Battery is where a person has inflicted physical injury; an assault, however, is only an offer or attempt to inflict physical injury.
- 10. Mayhem applies to any injury done to a limb. It formerly applied to the injury of the face, lip, tongue, eye, or ear.
- 11. Felony is a crime punishable by imprisonment in a State prison.
- 12. An Accident is not a crime unless criminal carelessness can be proved.
- 13. Burglary is the entering of a house at night or at twilight or in darkness where it is difficult to distinguish a man's face.
- 14. Perjury is false swearing willfully done. A witness should always qualify his statements as "to the best of my belief" or "as I am informed."
- 15. Murder in the first degree must be premeditated and malicious, or committed while the murderer is engaged in some felonious act.
- 16. Duels.—Killing a man in a duel is murder, and any person giving or accepting a challenge is guilty of a misdemeanor.
- 17. A Police Officer cannot arrest a person without a wast want, unless he has personal knowledge of the offense.

LAW ON LOST PROPERTY.

In point of law, the finder of lost property is entitled to keep it until the owner is found. To attempt to keep it when the owner is known, or where there are means of discovering him, is construed as larceny.

While walking along the road, A finds by the roadside a pocketbook containing a sum of money. He picks it up, examines its contents and puts it into his pocket, but it happens that there is a hole in the pocket, and it falls out. He does not discover the disappearance till he reaches home. He then retraces his steps, and near where he found the pocketbook he sees a young man who has it in his hands. The young man had picked it up when it fell from the pocket of the first finder. Which has the best right to the pocketbook and its contents? The young man has a right to it as against the other. A now nacommon maxim is, "The last finder is the best owner."

EMPLOYER AND EMPLOYE.

- f. Service.—Where one individual renders personal service to another by request, compensation, if not agreed upon, is implied.
- 2. Duties of Employer.—It is the duty of the employer to furnish proper tools and machinery. He must never expose the employe to danger without informing him of the danger. Neglect of the employer in this respect makes him liable for damages in case of injury.
- 3. Liability of Employer.—The employer is liable for the wrongful acts of his employe producing injury to others, provided the acts are done in the course of the ordinary employment. Thus a railroad company is liable to passengers for negligence of conductors and engineers while running trains on the road.
- 4. Duties of Employe.—The employe should faithfully perform the services for which he contracted for the entire term or period of service. If he leaves before expiration of time, he can claim no pay for the work done. This is the general rule and law, but some able judges have decided that even in this case the employe is entitled to pay for work done, less what the employer lost by necessity of paying higher wages, or what he lost by the employe's failing to perform his contract.
- 5. Wages.—If no agreement has been made before, the employe can claim the price usually paid for such service. If the employe leaves because of insufficient food, ill-treatment or disabling sickness, he is entitled to pay for the time he worked.
- 6. Discharge.—If the employe is discharged for dishonesty, incapacity, or misconduct, some courts hold that the employer is under no obligation to pay him, but in all such cases a mutual agreement and settlement are far better in every way than resorting to law.
- 7. Law of Kindness.—A kind and pleasant treatment on the part of the employer, even an expression of appreciation of work well done, goes far, very far, in making the employe worthy and competent. Harsh means and manners have often discouraged those who would by kind treatment have become efficient and competent in their work.



ARGUING THE CASE OF A LOST NOTE.

THE LAW GOVERNING LOST NOTES OR BILLS.

- on a negotiable note or bill which was lost, if at the time it was lost it was transferable by delivery only, or had been endorsed and transferred before or after maturity.
- 2. Bond.—If a party should refuse to pay a note or bil! which has been lost, he may be sued and compelled to pay it, but the party collecting it may be required to give a bond, so that the note in question may never appear for payment.
- 3. Proved.—Of course it is necessary to establish by sufficient proof that the note for a certain amount by a certain party or parties had been given and up to date not paid. The maker of the note can compel the holder of the note to give evidence of the unsatisfied debt covered by the lost note.
- 4. Payable to Bearer.—If payment of a lost note or bill is made without notice of loss to the finder, the paper being

due and payable to the bearer, the payment is good. And if it comes into the hands of an innocent purchaser, before due, ne may collect the full amount of note, and the loser of the note cannot recover it.

- 5. A Part of a Bill or Note.—Where part of the bill or note has been torn off and lost by accident, that fact can be shown by presenting the remaining part as evidence of the debt and showing loss or destruction of the balance.
- 6. Caution.—If a note or due-bill has been lost, it is best to take disinterested parties and interview the maker and secure his open acknowledgment of the amount of said note or bill before letting him know the bill or note has been lost or burned, for it may often be difficult to secure a sufficient amount of evidence to establish the debt.

LEGAL GIFTS.

- 1. Who Can Make Gifts?—Any person legally competent to transact business may give whatever he or she owns to any other person. A gift by a minor, a married woman, an insane person, or a person under guardianship, or under duress, would be void, or voidable, according to the circumstances.
- 2. Delivery of dift Necessary.—A gift must be consummated—that is, the thing given must be delivered before any legal right rests in the grantee. A promise to give is not binding, as it is supported by no consideration. Delivery may be actual or constructive.
- 3. Cannot be Revoked by Donor.—A gift made perfect by delivery cannot be revoked by the donor; but if it prejudices the rights of existing creditors, it is void as to them. It is not, however, void as to future creditors, unless made under actual or expective insolvency, or with a fraudulent purpose.
- 4. Gifts Because of Expected Death Revocable.—Gifts because of expected death are revocable by the donor if life is continued; even after delivery and acceptance. Such gifts are held to have been made because death was supposed to be at hand; and if it does not ensue, the gift is defeated, as the death,

ch was the cause of the gift, has not taken place

THE LAW OF TRADING-OFFER AND ACCEPTANCE.

1. Jesting.—An offer made in a jest, though accepted is not binding. The law presumes that an offer must be made with good intention.

a. An Unconditional Acceptance.—If an offer has been made, the acceptance must be without any conditions attached. Any acceptance upon terms varying in the slightest degree from those proposed is not binding until all the conditions are

accepted.

3. A Good Acceptance.—An acceptance, to be good, must be such as to conclude a contract between the parties; and to do this it must, in every respect, meet and correspond with the offer, neither falling within nor going beyond the terms proposed, but exactly meeting them at all points and closing them just as they stand.

- 4. An Offer.—An offer may be withdrawn any time before it is accepted, but if no time is specified, then by the expiration of a reasonable length of time for acceptance the offer thereafter cannot be legally accepted. A limitation of time for which an offer is to run is an equivalent to the withdrawal of the offer at the end of the time named. Where parties are so situated that it is necessary to communicate by letter or telegram, the contract is complete the moment the acceptance is dispatched or the letter put into the post-office, provided this is done within a reasonable length of time, or before notice of withdrawal of the offer is received. Anyone receiving an offer by mail or telegraph is entitled to a reasonable time in which to accept or reject it.
- 5. A Notice of Reward for Information.—The offer by way of advertisement of a reward for information leading to the restoration of property or the conviction of a criminal, addressed to the public at large, becomes obligatory, if not previously reckoned, as soon as an individual, with a view to the reward, renders the specified service, but not before. To entitle one to the reward, he must have had notice of the offer at the time he rendered the service; for no one can assent to that which he has not heard of.



WHEN TO SIGN YOUR NAME IN FULL.

When you sign deeds, mortgages, wills, contracts involving land or other instruments of a permanent character, always write your name in full. Never use your ordinary business initials for signatures of this kind. In affixing your signature to a note or receipt, it is always better to write your first name out in full. There are sometimes several individuals in a community with the same initials and name, but when the first name is written out in full the names are different and consequently in mail matters, as well as in other things, much confusion is avoided. Therefore, in order to avoid possible errors in public records and confusion of titles, it is always better to sign your name in full. For instance, instead of writing H. A. Smith, write Henry A. Smith.

HOW A MARRIED WOMAN SHOULD SIGN HER NAME.

A married woman doing business for herself and handling her own individual money, would better use her own name instead of her husband's. For example, Mrs. Clark should sign Lucy A. Clark and not Mrs. Henry Clark. A married woman is always at a disadvantage if she signs at one time her own name and then at another her husband's name, and it always results in more or less confusion. If she prefers to use her own name, she should always write it that way and not write L. A. Clark, Lucy Clark, or Mrs. Henry Clark, but always write it Lucy A. Clark.

A married woman in writing a letter to a stranger should always prefix "Mrs." to her name.

HOW TO SECURE THE SIGNATURE OF A PERSON WHO CANNOT WRITE.

- 1. The signature of a person who cannot write should always be witnessed. Have the person who witnesses the signature sign his name at the left.
 - 2. Use the following form:

his
Frederick x Miller.
mark

Witness, Clarence Ranck.

This signature will apply to all forms of business papers, such as notes, receipts, deeds, leases, etc.:

Henry X Morre

In these days the uneducated man or woman is laboring under a great disadvantage. Parents, you owe your children an education. Do not miss an opportunity to buy a good book. An educated man lives longer and takes in more in a month than the same man uneducated would in a year. But education should be mixed with labor and common sense.



"Whom Shall I Marry?" MARRIAGE LAWS AND CONTRACTS.

- 1. Marriage is a civil contract. Marriage licenses are required in all the States except New Mexico, New York and New Jersey (licenses for non-residents are required in New Jersey). Marriages between whites and negroes, between whites and Indians, between whites and Chinese, are respectively forbidden in vious States.
- 2. Contract to Marry in the Future.—Mutual promise by a man and a woman to marry at some future day constitutes a valid contract.

- 3. A Marriage Contract.—A marriage is a civil contract, and is entered into by the mere consent of the parties. If the man says to a woman, "Will you marry me?" or words to that effect, and she says "Yes," or words that imply an affirmative answer, it is by law an agreement or promise of marriage, and both parties are legally held to carry out in good faith the promise thus made.
- 4. Breach of Promise.—If either party refuses to carry out the contract, he or she is guilty of breach of promise, and may recover damages of the other party. It is not very often, however, that the man sues the woman, though he has the right to do so if she fails to make good her promise.
- 5. Necessary Proof.—Generally in case of a lawsuit for breach of promise, there are no direct witnesses, as people generally become engaged without the presence of a third party, but the engagement may be implied by the conduct of the party sued.
- 6. Implied Evidence.—The promise of marriage is implied from circumstances, such as constant visits, presents, or open declaration of the parties, the reception of parents or friends, as an engaged couple, without any objections from the party accused. There are many ways of expressing serious intentions without an open declaration of words. Conduct speaks louder than words.
- 7. Excuses for Breaking the Promises.—A refusal may be justified on the ground of the bad character or conduct of the other party; poor health of either party is sometimes a good excuse, but not generally. If the woman were a widow or divorced, and concealed this fact from the man, this justifies a refusal to marry on his part.
- 8. Time of Marriage.—When a man promises to marry a woman without stating any special time, the law holds him guilty of breach of promise, unless he is ready to fulfill his engagement within a reasonable time; five years was held by law as being an unreasonable time.
- 9. When a Promise Is Not Binding.—If either party is under wenty-one years of age, he or she is not bound by promise to marry, and the law will excuse them any time from making good the promise; but, if the man is over twenty-one years of age, he can be held, and must make his promise good or par the damages

- yo. Seduction.—Seduction of a woman of lawful age under promise of marriage, and subsequent refusal to marry on his part, while not a crime, subjects the person so doing to heavy damages in a civil action for a breach of promise to marry, the seduction being used in aggravation of the ordinary damages allowed in actions for breach of promise to marry.
- 11. A Cowardly Act.—A young man who makes promises of marriage to a young lady, or gives her reason to believe that he is sincere in his visits and intentions, and then without excuse or cause devotes his attentions to another, commits a cowardly act. No honorable young man will do it.

No young man has a right to demand a young lady's exclusive company, without some definite understanding, and a young lady is very injudicious, if not foolish, if she receives the attentions of a young man, who claims her entire society, without some understanding or promise of sincerity. When the promise of marriage has once been made, it should be kept in good faith, unless both parties mutually agree to dissolve. The law always requires the promises of marriage to be met in good faith.

THE RIGHT OF MARRIED WOMEN TO OWN PROPERTY.

One of the marked evidences of the growth of true civilization in the United States is the legislative provisions enacted during the past fifty years for the benefit of married women. These legal enactments differ greatly in the different States, and there are frequent changes in some States, but all tend toward the releasing of woman from her former condition of absolute dependence upon her husband. By the old common law a married woman had few rights. She was subject to the authority of her husband, and he could rule over her, but the States have changed the common law and the rights of married women are now recognized by every court.

- r. All property owned by the wife before marriage, or received after marriage and held as her separate property, can be sold and transferred without the consent of her husband.
- 2. If a husband fails to make proper provision for the support of his wife, the law will compel him to furnish her proper support if he has sufficient property.

3 The wife must support her husband out of her separate property when he has no separate property and is without help or means of self-support.

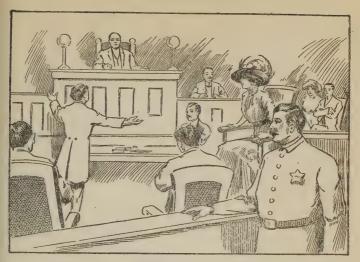
4. The earnings of the wife are not liable for the debts of

the husband.

- 5. The separate property of the wife is not liable for the debts of her husband.
- 6. The property owned by the husband before marriage, or acquired after marriage by gift or inheritance, is his separate property; but his wife, however, has a dower interest in the real estate.
- 7. The wife who deserts her husband cannot hold him for her support, unless she was justified in leaving, or offers to return.
- 8. The earnings of the wife and her minor children after living separate from her husband are the property of the wife.
- 9. If husband or wife transfer real estate of any kind, both must sign the deed, mortgage or contract.

AUTHORITY OF WIFE LIVING APART FROM HUSBAND TO BIND HIM.

Whether or not the person who supplies a wife with necessaries has knowledge at the time of her husband's provision for her support, the presumption of a wife's authority to pledge her husband's credit is negatived by the fact of their living apart, and the tradesman who supplies her under such circumstances upon the credit of her husband, and without his express sanction or approval, does so at his own peril, and in order to charge her husband with supplies furnished her he must show that they were not only of the kind usually denominated "necessaries," because their need is common to all persons, but that in consequence of the inadequacy of the husband's provision, they were actually required for the wife's proper support, commensurate with his means, her wonted living as his spouse, and her station in the community. Bloomingdale vs. Brinckerhoff. C. Common Pleas, N. Y. City and County 20 N. Y. Sup. 858.



GETTING A DIVORCE.

DIVORCE AND DIVORCE LAWS.

Causes.—Martin Luther, speaking of his wife, said: "I would not exchange my poverty with her, for all the riches of Croesus without her. The utmost blessing that God can confer on a man is the possession of a good and pious wife with whom he may live in peace and tranquillity." It is the lack of this spirit that brings about so many divorces. Some persons are disappointed in marriage because they expect too much from it; but many more because they do not bring into the copartnership their fair share of cheerfulness, kindness, forbearance, and common sense.

Danger.—The family is the nucleus of the State and the very foundation of all that is good. Its relations are too vital to the happiness of the individual and the good of the public generally to be lightly destroyed. Easy divorces are deplorable. They are threatening evils.

increase.—It is safe to say that divorce has been doubled in proportion to marriages or population in most of the northern States within forty years. The number is still increasing as present figures indicate. President Woolsey says that there can be no question that in our country the ratio of divorces to marriages or to population exceeds that of any country in the Christian world. Even some heathen nations set us examples that we might profitably follow.

Laws of States.—South Carolina is the only State where marriage knots cannot be untied. The violation of the marriage vow is cause for absolute divorce in all other States. The divorce laws of the different States vary greatly. Some of the principal causes for divorce are impotency, willful desertion, cruel and abusive treatment, habitual drunkenness, imprisonment for felony, failure by husband to provide, duress, insanity or idiocy, ungovernable temper, grossly immoral before marriage, but unknown to wife, fugitive from justice. There are at present more than 1,000,000 divorced persons in the United States. This tide of evil ought to be stayed.

THE LEGAL RELATION OF PARENT AND CHILD:

If the marriage and family relations were what they should be, then the legal relation of parent and child would not be so prominent and important. It is the unhappy marriages and the unfortunate family relations that call into question the authority of the parent and the rights of the child. In our country alone 25,000 children were deserted by their parents in 1896, and no less than 100,000 were homeless. Look at these figures, and then think of the many legal questions that are involved by the action of one or the other of the parents, or of the child itself. Let the home be what it should be, let parents make home, however humble, a place of comfort and cheerfulness, and legal relations will be unheard of. The conditions of society are, however, such that in almost every community it is essential that the legal relations of parents and children be clearly and definitely understood.

1. Ancient Authority.—In past ages the father was by custom considered as absolute monarch of the home. In the oriental countries of to-day, the same custom still prevails; modern progress and modern ideas, however, have changed old customs, and the authority of the parent in civilized countries has been considerably limited by law.

- 2. Rights of Parents.—The parent has control of his minor child, and has all reasonable authority to enforce obedience. As long as the parent treats his child properly, no one has a right to interfere with his authority, or take the child away and retain him against the wishes of the parent.
- 3. A Runaway Child.—A child has no right to leave home without permission of the parent, and should a child run away he can be brought back by force. If relatives or other parties keep him and refuse to give him up, the parent by legal process can obtain possession of his child, unless it can be shown that the father is brutal, or is not capable, on account of drunkenness or other causes, to take proper care of his child.
- 4. Adoption.—Any child, whether its parents are living or not, may be adopted. In that case the parent is no longer entitled to the custody, but the adopting person is. The child cannot be adopted without the consent of its parents, if they are living, but the consent having once been given cannot be revoked. If the child is over fourteen years of age, it must also consent to the adoption. Under any circumstances the court has the right to refuse to permit the adoption if it considers that the person petitioning is not a proper person to have the custody.
- 5. Method of Adoption.—Application must be made at the county court, and the judge will consider the application and will pass upon it.
- 6. Punishment of children.—A parent has a right to punish his minor child, providing he is not guilty of cruelty. Brutality is a crime, punished by severe legal penalties. The parent must be reasonable in his punishment, leave no bruises or in any way injure the health of the child.
- 7. Rights to Earnings.—A parent is entitled to all the earnings of his minor child. If the child should refuse to turn over his earnings to the parent, the employer of the child may be notified, and be compelled to pay the parent only.
- 8. Special Rights.—The parent may, however, make free his child from all obligations to himself and allow he child to collect his own wages and do for himself. When a parent thus makes public such a declaration, he cannot thereafter collect the child's wages.
 - o. The Property of the Child .- A parent may control the

earnings of the child, yet he has no control of the property belonging to the child, either acquired by gift, legacy or any other way. If a parent should appropriate his child's property, it would be just as criminal in the eyes of the law as stealing any one else's property.

ro. Parent's Obligation to Support.—Parents are legally held for the support of their minor children. If a child has property, it does not relieve the parent from the support of his child; he, however, can apply to court and get permission to use a part, or all, of the income of the property for

the child's support.

- port even an illegitimate child. Such a child has legally no father, but his putative father, as he is called, may be compelled by the overseers of the poor to furnish the child with reasonable support, so that it shall not become a "burden on the parish." All children born in wedlock are legitimate, unless it is proved that the husband could not possibly be the father. The adultery of the wife cannot affect the legitimacy of the child. He is conclusively presumed to be the child of the husband. It makes no difference how soon after the marriage the child is born. A child born the same day as the marriage, if subsequent to the ceremony, is legitimate, provided there is good reason for believing that the husband is the father.
- 12. Effect of Illegitimacy.—The only legal effect of illegitimacy of any consequence is that the child cannot inherit property from his father; nor from his mother, if she has any legitimate children. He may, of course, take a legacy given to him by his putative father's will, but if there is no will he cannot inherit.
- 13. Children's Obligations.—Where the parents are unable to support themselves, the child is legally held for their support and care, but it must be first shown that the parent, or parents, are unable to support themselves.
- 14. Crimes.—The parent cannot be held for crimes committed by his minor child. If a child commits a premeditated crime, he is personally liable.
- 15. Guardian.—If a child has no parents living, a guardian may be appointed, or he may appoint his own guardian, who will in a legal sense exercise the prerogative of a parent.



THE LAWS GOVERNING OUR COMMON AND PUBLIC SCHOOLS. FACTS WHICH EVERY TEACHER AND PARENT SHOULD KNOW.

- 1. Teachers.—It will be found that in all the States the authority to employ teachers is conferred upon officers known as directors, trustees, or committees.
- 2. The contract made by school officers with a person to teach for a period extending beyond the trustees' term of office is valid and binding on successors in office.
- 3. A person under age possessing the requisite qualifications may with the consent of his parent or guardian contract to teach school.
- 4. At common law married women were disabled from making such contracts, but most of the States have removed this disability and they can now contract the same as unmarried women.
- 5. Certificates.—Every teacher must have a certificate of mental and moral qualifications properly signed by the examining officer.
- If, however, the teacher has obtained a certificate without fraud, although the certificate was issued without any examination having been made, still it is held that the certificate is good and that the teacher can hold the directors responsible for his salary.

6. Should a person be employed to teach school without a proper certificate he cannot be restrained by the superintendent, but any citizen or resident of the district can make a complaint and secure the removal of such a teacher.

CONDITIONS OF SCHOOL CONTRACTS.

- It is always best to have a written contract properly signed between teacher and officers.
- 2. A person hired to perform the duties of a teacher cannot substitute a proxy, no matter how competent, without the consent of the trustees or directors.
- 3. The trustees of any school district have no right to dismiss any teacher holding a proper certificate, without good and sufficient cause. If the teacher is not faithful, or incompetent, or cannot properly govern the school, these or any one of these deficiencies shall be a sufficient cause for dismissal.
- 4. If a teacher is dismissed without sufficient cause, full compensation for the time hired can be collected. The teacher must present himself and show willingness to go on with the school in order to show sufficient evidence that he is ready to faithfully perform his part of the contract.

If directors wantonly obstruct him in the discharge of his duties, or dispossess him of the school-house, they will be individually liable for damages.

- 5. Sweeping the School-House.—A contract to teach school does not imply that the teacher is to sweep, build fires, or perform other janitorial work. He is not compelled to do so unless it is specified in the contract or agreement.
- 6. A Calendar Month.—The word month has various meanings. There are calendar months, solar months, and several kinds of lunar months.

In law the word month means either a calendar or lunar month. The calendar months are the months as adjusted in the Gregorian calendar, and known as January, February, March, etc.

A lunar month is the period of one synodical revolution of the moon, and its length is 29 days, 12 hours, 44 minutes and 2.87 seconds, but in common usage four weeks are called a lunar month. In making a contract it is always best to specify the kind of month to be taught. If there is no mention of the term month in the contract, then the teacher will be compelled to teach calendar months.

7. Closing School.—If the district officers close the school on account of the prevalence of scarlet fever, small-pox, or on account of any other contagious disease, and the teacher continues ready to perform his contract, he is entitled to full wages during such a period.



OLD TIME SCHOOL.

CORPORAL PUNISHMENT.

that thidren well governed by parents that thidren well governed at home, rarely, it ever have any difficulty with leachers it like school-room. The sacred duty to be performed by every parent us to teach his child to be respectful to his teach I and elections to the rules of school.

- 2. There would be no success in the management of a school if the teacher were not armed with some coercive power, and the law universally recognizes the fact that the school-teacher stands in the place of the parent, in relation to the pupils committed to his charge, while they are under his care. He therefore can enforce obedience to his commands, lawfully given in his capacity as a schoolmaster, and he may enforce them by a moderate correction.
- 3. A good school means good order and the authority to keep it so, therefore the teacher has undoubtedly the right to chastise his pupils for any conduct which interferes with the order and discipline of the school.
- 4. If the teacher in punishing a child administers more than reasonable punishment, he becomes criminally liable.
- 5. A teacher must punish a child without any ill-will, vindictive feeling, hatred or malice. The punishment must be done when necessary, and in the proper spirit.
- 6. The teacher must exercise a reasonable degree of discretion, and must temper the punishment according to the nature of the offense, at the same time taking into consideration age, size, and apparent powers of endurance of the child, and the teacher must always remember that the jury must say whether the punishment is excessive and unjust.
- 7. Malice on the part of the teacher may be proved or may be presumed from the circumstances under which the punishment took place.
- 8. A teacher in order to conduct a successful school must command obedience, and control stubbornness in order to quicken diligence and reform bad habits. In order to enable the teacher to exercise this salutary sway, he must be armed with a power to administer moderate correction when he shall believe it to be just and necessary.
- 9. The teacher is a substitute of the parent and he is responsible for the successful management of the school for which he is hired to teach, and the law has therefore not undertaken to prescribe punishments for particular offenses, but has contented itself with the general grant of power of moderate correction, and has confided the graduation of punishments to the discretion and judgment of the teacher.
 - 10. Any punishment, therefore, which may seriously endan-

ger life, limbs or health, or disfigure the child, or cause any permanent injury, may be pronounced immoderate, and the teacher will be liable for criminal prosecution; but any correction, however severe, which produces temporary pain only and no permanent ill, cannot be pronounced immoderate punishment. The law therefore is that the teacher exceeds the limits of his authority when he causes lasting mischief, though he acts within the limits of his authority.

- 11. Many severe cases of discipline may better be referred to the board of school directors, but teachers are often compelled to act promptly in order to maintain order.
- 12. It is always best before expelling a pupil from school to consult the board and place the facts plainly before them and allow them to act for the teacher. An incorrigible child at school can work great mischief, and where parents are in sympathy with a disobedient child the best thing that can be done is to dismiss such a pupil from school.
- 13. How many men and women are there today who have made life a failure; who owe their present condition in life to the fact that their parents always tools their part in every matter of disobedience when they were attending school. The writer personally knows of several young men who have spent several years between the stone walls and behind iron bars of penitentiaries, and who owe their condition in life to the fact that they were not properly governed at home, and were not allowed to be governed properly at school.
- 14. Parents, have the respect and obedience of your children at home, and their school life will not only be pleasant but it will prepare them for a life of usefulness and success.
- 15. When it is known by the child that the teacher is supported by the parent and that the government of the school is upheld in the home, there is very little occasion for corporal punishment. Our public schools have greatly improved in this respect. The rod has given way to methods that tend to inspire confidence, respect, and an eagerness to acquire knowledge.
- 10. It is wise for a teacher to have a private interview with the disobedient student, and often results in a most pleasing and lasting friendship. Misunderstanding is the cause of a great deal of trouble.

EXEMPTION LAWS.

The Amount of Property That Cannot be Taken for Debts in Different States.

- 1. Exemption Laws are for the purpose of protecting those who are unable to pay their debts without causing distress to themselves and their families.
 - 2. Property covered by mortgage cannot be held.
- 3. A safe estimate of the property of the person desiring credit should be made before the credit is given.

States.	Value of Personal Property.		Value of Home- stead.	Exceptions and
STATES.	Married.	Single.	Married.	Explanations.
Alaska Territory(a)	\$1, 000	\$1,000 175	\$2,000	or 160 acres of land. 160 acres value not to exceed \$2,500.
Arizona	1,000		2,500	Earnings for 30 days prior to
Arkansas California (a)	500 1,000	200	2,500 5,000	levy. 160 acres of land. Must be designated as such in
Colorado (a)	300		2,000	writing and recorded. Word "Homestead" must be
Connecticut (a) Delaware (b) Dist.of Columbia(a) Florida	200 300 1,000	**************************************	1,000 none none	written on record of deed. 160 acres of land in country, 1/2 acre in city.
Georgia Idaho (c)	1,600*		5,000	Ci., at
IllinoisIndiana	400 600†	100	1,000	Single, \$1,000. (e) Homestead must be designated by a writ- ing executed and recorded like a deed.
Iowa (c)	200			40 acres in country, 1/2 acre in
Kansas		500		city. No limit as to value. 16. acres in country, 1 acre in
Kentucky (c)			1,000	city.
Louisiana	2,000			Homestead and personal prop- erty. Written declaration must be recorded.
Maine (c) Maryland (c) Massachusetts (c)	500		none 890	************************
Michigan	400	1	1,500	40 acres in country, \$1,500 in city.

STATES.	Value of Personal Property.		Value of Home- stead.	Exceptions and						
to de the deduction	Married.	Married. Single.		Explanations.						
Minnesota (c)	\$ 500	\$	\$	80 acres in country, ½ to 1 acre in city, varying with size of						
Mississippi (c)	}		2,000	or \$3,000 if statement is record-						
Missouri (c)	300		160	ed. From \$1,500 to \$3,000, according						
Montana (c)	**** ****		2,500	to size of city. And not to exceed 160 acres of						
Nebraska (f) Nevada (d)	500 500		2,000 5,000	farm land or ¼ acre in city. Written declaration must be recorded.						
New Hampshire (c).	••••		500	Also \$500 homestead for single						
New Jersey New Mexico (c) New York North Carolina North Dakota (c)	200 500 250 500 1,500		1,000 1,000 1,000 1,000 5,000	man (e). 160 acres in country, or 2 acres in city not exceeding \$5,000 in yalue.						
Ohio (c)Oklahoma (c)	100		1,000	160 acres in country, 1 acre in						
Oregon (c)	300‡ 300 500 750	300	1,500	180 acres in country, 1 acre in						
Tennessee (c) Texas (c)			1,000	town, limit \$5,000. 200 acres in country, \$5,000 in						
Utah (c)			2,000	\$1,000 for debtor, \$500 for wife, \$250 all members of family.						
Vermont (c) Virginia (c)	200		500 2,000	**************************************						
Washington washington	500		2,000	Varies from \$500 to \$2,000 according to trade or profession.						
West Virginia (w) Wisconsin (c)	200 200		1,000	40 acres in country, ¼ acre in city, not exceeding \$5,000.						
Wyoming	500		1,500	orogano oxocoming populos						

⁽a) Articles of specific property too numerous to mention, no value fixed.

(b) Exemptions vary in different counties. (*) In either personalty, realty or both. (†) In personalty or realty. (c) Articles of specific property too numerous to mention, varying in amount in different trades and professions (d) Articles of specific property, ranging in value from \$100 to \$500. (‡) Real or personals. (e) A single man can claim homestead only in Idaho and New Hampshire. (f) If no homestead is taken, \$500 in personality is exempt, and the exemption laws in New Maxico are the same as in Nebraska.

(w) Homestead must be so designated and recorded before dobt is contracted.

*HOMESTEADS UNDER UNITED STATES LAND LAWS.

- I. Any citizen of the United States, the head of a family of the age of twenty-one years and over, or a person who has filed his declaration of intention to become such citizen, may secure a homestcad upon the unappropriated public lands belonging to the government which are subject to pre-emption; 160 acres if such lands are subject to pre-emption at \$1.25 per acre, and 80 acres of land which are subject to pre-emption at \$2.50 per acre; such lands to be of legal subdivision of the public lands and can be located only after they are surveyed.
- 2. The person desiring to secure such homestead must make an affidavit before the register of the land office in which the land upon which he desires to make his entry is located, that he is the head of a family, and is twenty-one years or more of age, or has performed service in the army or navy of the United States; that his application is made for his own exclusive use and benefit, and that his entry is for the purpose of actual settlement and cultivation, and not, either directly or indirectly, for the use and benefit of any other person, persons or corporation. Upon filing such affidavit with the register on payment of \$5 for 80 acres and \$10 for 160 acres he shall be allowed to enter the amount of land specified.
- 3. No certificate or patent can be issued until the expiration of five years from the date of such entry, and within two years after the expiration of said five years the party making the application must prove by two disinterested witnesses before the register of his land office that he has actually occupied and cultivated and improved said land as a homestead for the space of five years prior to the making of such application. Upon making such proof to the satisfaction of the register he shall be entitled to his certificate and patent.
- 4. The homestead right may be changed into a pre-emption and the land proposed to be homesteaded paid for at the regular government rate if the homesteader so desires.
- 5. In case of the death of any person who would be entitled to a homestead, as hereinbefore stated, before he is able to prove up the same, his wife and children, or in case he leaves no wife, or she remarries, then his children may prove up on the land and secure the title thereto.

^{*}What is said under this head applies to homesteads under United States statutes. It has no application to homesteads under state laws.

- 6. Soldiers and officers who served in the army of the United States during the Rebellion for oo days and who were honorably discharged are entitled to have the time of such service deducted from the time fixed by the statute upon which they must live upon the land.
- 7. Homestead lands are not liable for debts contracted prior to the issuing of the patent therefor.
 - 8. Only one quarter section can be entered as a homestead.
- o. Persons who have entered less than 160 acres are entitled to enter enough more to make up the full limit.
- 10. A widow, if unmarried, or minor children by their guardian, may enter homesteads.
- 11. Persons may be absent from their homestead claims not exceeding one year, if such absence is occasioned by the failure or destruction of crops.
- 12. The commissioner of the general land office may, for climatic reasons, in his discretion, allow the settler twelve months from the date of filing his application to commence his residence on his homestead.
- . 13. At the end of the third year of residence thereon, if the homesteader shall have under cultivation for two years one acre of timber, the trees whereof are not more than twelve feet apart each way, and in good thrifty condition, for each and every sixteen acres of such homestead, may, upon due proof of such facts by two credible witnesses, receive a patent for such homestead.
- 14. Six months' absence from the homestead claim unexplained, forfeits the claim.
- 15. Persons becoming insane before securing patents to their homesteads can have the necessary proofs made by their legally appointed guardians or conservators.

STATUTES OF LIMITATIONS OR THE TIME IN WHICH DEBTS ARE OUTLAWED IN THE DIFFERENT STATES AND BRITISH PROVINCES.

All of our States have statutes of limitation providing different periods of time, varying from one to twenty years. within which actions specified in the statutes must be brought.



"THE MAN WHO IS IN DEBT CARRIES A WORLD OF TROUBLE."-BURKE.

2. In accounts it generally begins from the purchase of the last item, and is renewed by every partial payment.

3. In case the debtor makes a written acknowledgment in a note, or papers of that character, the claim is renewed.

STATES AND TERRITORIES.	Contracts in Writing.	Sealed Instruments.	Judgments.	Open Accounts.	STATES AND TERRITORIES.	Contracts in Writing.	Sealed Instruments.	Judgments.	Open Accounts.
Alabama Alaska. Arkansas Arizona California Colorado Connecticut. Delaware Dist. of Columbia. Florida. Georgia. Idaho. Illinois Indiana Iowa. Kansas. Kantucky Louisiana Maine Maryland Massachusetts Michigan Minnesota. Mississippi	Yrs. 6 6 6 6 6 6 6 6 6 6 6 6 6	Yrs. 10 10 5 4 4 6 20 20 12 20 10 10 15 10 20 10 6 6	Yrs. 20 10 10 5 6 20 10 12 20 20 20 20 20 15 10 20 10 10 10 7	Yrs. 3344456535636668	Nevada New Hampshire. New Jersey New Mexico New York North Carolina Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington W Virginia Wisconsin Wyoming	Yrs. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Yrs. 6 20 16 20 10 6 15 5 10 20 20 10 10 4 6 8 10 20 5	Yrs. 6 20 20 7 20 10 10 20 5 10 20 20 10 20 10 20 10 20 5 10 20 5 6 6 10 20 5	Yrs. 4664686686686686686686686868686868868868
Mississippi Missouri Montana Nebraska	10 8	10 8 5	10 10 5	5 4	Canada New Brunswick. Nova Scotia	6 6	20 20 20	20 20 20	6 6

^{*} Except as to foreign claims, then 2 years.

TAXES AND DUTIES.

Definition.—Taxes are assessments of modey on persons opproperty, for public purposes and the public good. Duties are taxes on imported goods.

A Direct Tax is levied upon the person who it is intended should pay it. The expenses of towns, cities, counties and States are paid by a direct tax upon the property or polls.

An Indirect Tax is one demanded of the merchant or manufacturer, but really paid by the consumer. Such are duties and customs collected upon imported goods.

Poll Tax.—In some States a tax is levied upon all abiebodied men over twenty-one years of age, or, in some States, upon all voters. This is called a Poll Tax.

A Property Tax is an amount assessed upon all property within the limits of the State, County or Town.

An Assessor is a person elected annually by the people. He is required to make a careful and true valuation of all the property in the town or township.

How a Tax is Levied.—Having obtained a valuation of all taxable property in a district, the amount of the tax to be raised is divided by this, giving the rate of taxation. Property is liable to be taxed for each of several purposes, one amount being assessed for State tax, another for county, the town and the school. In each case the rate may be different, because in each case the amount to be raised is different. Poll tax, if any, must first be deducted from the whole amount to be raised before the rate of taxation can be found.

Equalization Boards.—The work of these boards is to make such changes in the valuation of the property as the case demands. Any one believing his property to be assessed for too great a sum has the privilege of appealing to a board for correction of assessment. This must be done within a specified time. The State Board of Equalization adjusts the rate of taxation among the counties of the State. This is done by raising or lowering the valuation of property of different counties.

Special Assessments are assessments against property benefited, for public improvements, such as widening, opening or paving of streets, water pipes, sewers, etc. These are usually made by the town or city authorities upon the petition of property of the property of the

erty owners interested. Frequently a vote is taken by the town-before the assessment is made by the authorities.

Great Care should be taken in buying real estate near cities or growing towns. Through the manipulations of real estate boomers special assessments are often made that are far ahead of the actual needs and very expensive to all property holders.

Internal Revenue and Duties on Imports.—The expenses of the United States Government are paid by internal revenue and taxes on imports. By internal revenue is meant the tax on tobacco, cigars, distilled spirits, fermented liquors, etc. Duties on imports are charged for the support of the Government and for the protection of home industries.

Collection. D⁷ .ricts.—The waters and shores of the United States are divided into collection districts and a collector placed in charge of each of them.

Ad Valorem Duty is a tax assessed at certain per cent. upon the value of the goods in the country from which they were exported.

Specific Duty is a tax assessed at a certain sum per ton, pound, foot, gallon, or other measure without respect to value.

Bonded Warehouses.—These are places for the storage of goods on which the duties or taxes have not yet been paid. If an importer does not wish to place his goods upon the market at once, he may have them stored in bonded warehouse by giving his bond for the payment of the duties and making the entry in the proper form.

BREACH OF TRUST.

Breach in law signifies a breaking or a violation of a right or of an obligation or engagement legally binding.

If you give a person money, jewels, or valuables to be used by him, for you, for any specific purpose, such as paying a debt for you, or buying some article for you, or delivering them to some one else, and if that person applies the money, etc., to his own use, he is guilty only of a breach of trust. You have no recourse except to sue him for the value of the money or property, provided, however, that he undertook the service without pay. If you pay, or agree to pay, him anything, no matter what the amount, for his services, and he then applies the money or valuables to his own use, he is guilty of embezglement, which is a criminal offense.

HOW TO SECURE AN APPOINTMENT UNDER THE CIVIL. SERVICE LAW.



OFFICE SEEKERS WELCOMING A NEWLY ELECTED MEMBER OF CONGRESS ON HIS ARRIVAL AT WASHINGTON.

- I. In 1883 Congress passed a law for the improvement of the civil service in the United States. This law provides for three commissioners appointed by the President. They have general charge of filling the vacancies in the various subordinate departments at Washington, and in all custom-houses and postoffices having as many as fifty office-holders.
- 2. There are over 120,000 clerks in the government employ by whom the business of each administration is carried on. About 5,000 of these are directly appointed by the President; about 15,000 are under what is known as the "Civil Service Rules." Thus it is seen that a great body of officeholders are appointed by the heads of departments.
- 3. In order to have better service and secure men according to their fitness rather than party af-

filiation, a system of competitive examinations has been organized, and the competitors are required to be examined on the following subjects: 1. Orthography, penmanship and copying.

2. Arithmetic—fundamental rules, fractions and percentage.

3. Interest, discount and the elements of book-keeping and accounts.

4. Elements of the English language, letter writing, and the proper construction of sentences, 5. Elements of the geography, history and government of the United States.

4. A standing of 65 per cent. in the first three branches is necessary in order to qualify an applicant for an appointment.

Where special qualifications are necessary, special examinations are given.

- 5. Every applicant must furnish proof that he is of good moral character and in good health.
- 6. There is a board of examiners in each of the principal cities of the United States, and several examinations are held each year. Several of our States have adopted the principles of the general government, and are employing clerks under their own civil service rules.
- 7. If you desire to enter an examination, address, "Civil Service Commissioner," Washington, D. C., and you will secure a full set of papers, and complete information as to time and place where the examinations are held, and full instructions for entering same.



DOMESTIC POSTAGE.

To all parts of the United States; also Canada and Mexico:

1. First-Class.—Letters, 2 cents per ounce or fraction

thereof; postal cards, I cent each.

- 2. Second=Class.—Newspapers and periodicals, I cent for each 4 ounces or fractional part thereof; special rates for publishers and news agents, I cent per pound.
- 3. Third-Class.—For books, circulars, etc., I cent for each 2 ounces or fraction thereof.
- 4. Fourth-Class.—Merchandise and samples, I cent for each ounce or fraction thereof.
- 5. Registry Fee.—Ten cents additional to regular postage of first-class matter.

- 6. Immediate Delivery.—Ten cents additional to regular postage.
- 7. Postal Money Orders.—For orders not exceeding \$2.50, 3 cents; \$2.50 to \$5, 5 cents; \$5 to \$10, 8 cents; \$10 to \$20, 10 cents; \$20 to \$30, 12 cents; \$30 to \$40, 15 cents; \$40 to \$50, 18 cents; \$50 to \$60, 20 cents; \$60 to \$75, 25 cents; \$75 to \$100, 30 cents.

FOREIGN POSTAGE.

The rates of postage to all foreign countries and colonies (except Canada, Mexico, England and Germany) are as follows:

1. On Letters.—Five cents for each half ounce or fraction thereof.

On newspapers, books, pamphlets, photographs, engravings, and similar printed matter, one cent for each two ounces or fraction thereof.

- 2. Canada, Mexico, England and Germany.—Letters, newspapers and printed matter are now carried to Canada, Mexico, England and Germany at the same rates as in the United States.
- 3. Limits of Size.—Samples of merchandise to all postal union countries are admissible to 12 inches in length, 8 inches in width and 4 inches in depth. If they are in the form of a roll inches in length and 6 inches in diameter.
- 4. Limit of Weig'it.—The general limit of weight is 8% ounces; but by special agreement between the United States and Great Britain, France, Belgium, Switzerland, Argentine Republic, Italy, Austria, Egypt, and the British Colonies, except India, Canada and Australia, samples of merchandise are admissible in the mails up to 12 ounces in weight.
- 5. Parcels Posts.—Unsealed packages of mailable merchandise may be sent by parcels post to Jamaica, Barbadoes, the Bahamas, British Honduras, Mexico, Leeward Islands, Costa Rica, Colombia, Salvador, British Guiana, Danish West Indies, Windward Islands and Newfoundland at the following rate: For every pound or additional fraction thereof 12 cents The maximum weight is 11 pounds.
- 6. Prepaid Postage.—Foreign postage should always be prepaid in stamps of the country from which matter is sent. If not prepaid it is chargeable with double the amount.

PARCEL POST INFORMATION.

The Act of Congress authorizing the establishment of a Parcel Post system provides that on and after January I, 1913, fourth class mail matter shall embrace all other matter, including farm and factory products, not now embraced by law in either the first, second, or third class, not exceeding 11 pounds in weight nor greater in size than 72 inches in length and girth combined, nor in form or kind likely to injure the person of any postal employee or damage the mail equipment or other mail matter, and not of a character perishable within a period reasonably required for transportation and delivery.

RATES OF POSTAGE.

Parcels weighing four ounces or less are mailable at the rate of one cent for each ounce or fraction of an ounce, regardless of distance. Parcels weighing more than four ounces are mailable at the pound rates shown in the following table, a fraction of a pound being considered a full pound:

Weight.		First zone.		50	150	300	0	0000	1,400	all es.
		Local rate.	Zone rate, 50 miles.	Second zone, to 150 miles.	Third zone, 15 to 300 miles.	Fourth zone, 5 to 600 miles.	Fifth zone, 600 to 1,000 miles.	Sixth zone, 1,0 to 1,400 miles.	Seventh zone, to 1,800 miles.	Eighth zone, a over 1,800 mile
1 2 3 4 5 6 7 8 9 10 11	pound. pounds.	\$0.05 .06 .07 .08 .09 .10 .11 .12 .13 .14	\$0.05 .08 .11 .14 .17 .20 .23 .26 .29 .32	\$0.06 .10 .14 .18 .22 .26 .30 .34 .38 .42 .46	\$0.07 .12 .17 .22 .27 .32 .37 .42 .47 .52	.14 .20 .26 .32 .38 .44 .50 .56	\$0.09 .16 .23 .30 .37 .44 .51 .58 .65 .72	.19 .28 .37 .46 .55 .64 .73	.21 .31 .41 .51 .61 .71 .81 .91	\$0.12 .24 .36 .48 .60 .72 .84 .96 1.08 1.20

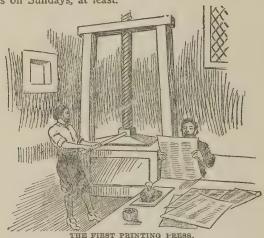
The local rate is applicable to parcels intended for delivery at the office of mailing or on a rural route starting therefrom.

POSTAL SAVINGS BANKS.

- 1. Object.—The Postal Savings System is established for the purpose of providing facilities for depositing savings at interest with the security of the United States Government for repayment.
- 2. Who May Deposit.—Any person of the age of 10 years or over may deposit in his or her own name and a married woman in her own name free from any interference or control by her husband. No person may open a postal-savings account at any post office who is not a patron of that office.
- 2. All Accounts must be opened in person by the depositor or his authorized representative. No accounts will be opened in the name of any corporation, association, society, firm, or partnership, or in the names of two or more persons jointly. No account may be opened for less than \$1, nor will fractions of a dollar be accepted for deposit.
- 4. Privacy of Accounts.—No person connected with the Post Office Department or the postal service is permitted to disclose the name of any depositor or give any information concerning an account.
- 5. Interest will be allowed on all deposits at the rate of 2 per cent per annum, computed on each savings certificate separately and payable annually. No interest will be paid on money which remains on deposit for a fraction of a year only. Deposits will bear interest from the 1st day of the month next following that in which deposited.
- 6. Death of Depositor.—In case of the death of a depositor the amount standing to his credit will be paid to the executor or administrator of his estate upon compliance with the necessary requirements.
- 7. Postal-Savings Bonds.—A depositor will be permitted to exchange the whole or any part of his deposits in sums of \$20, \$40, \$60, \$80, \$100, or multiples of \$100 up to and including \$500, into United States registered or coupon bonds bearing interest at the rate of 2½ per cent per annum, payable semi-annually. These bonds are not counted in the maximum of \$500 allowed to one depositor, and are exempt from all U. S. or local taxes or duties.

WORKING ON HOLIDAYS.

There is no law which says a farm hand or any other labores shall not work on holidays. Generally the laborer should work on such days if required to do so, or forfeit his right to pay. In many localities it is customary not to work on some of the principal days, such as Christmas, Thanksgiving Day in the East and the Fourth of July, and still to pay the men their regular wages. If this custom is common and well known in any place, it will probably govern, so that pay can be collected although the work is not done. Of course, ordinary farm chores should be done, as on Sundays, at least.



THE LAW OF NEWSPAPER SUBSCRIPTIONS.

- I. There is no postal law regulating the transactions between publishers and subscribers. The ordinary rules of contract govern all relations between the parties concerned, and the postoffice has no part except to deliver the article, or return it when ordered to do so.
- 2. If the publisher of any paper or periodical sends his paper or magazine, the postmaster must deliver it, if the person to whom it is sent will take it. If he will not take it, the postmaster must notify the publisher.

- 3. The publisher must collect his subscription the same as any other debt.
- 4. If a man subscribes for a paper or periodical for one year, he cannot stop his paper at any time during that year, but at the end of the year he can stop his paper, whether he has paid for it or not.
- 5. If at the end of the year the publisher continues to send his paper and the subscriber to receive it, the sending is the offer of another year's subscription at the same price, and the taking of the paper out of the postoffice is an acceptance.
- 6. If a subscriber has by express or implied agreement become liable for another year's subscription, he cannot during and before the expiration of that year stop his paper, even by paying up all he owes to the publisher.
- 7. If the publisher advertises terms of subscription, all parties taking the paper under these conditions will be held according to the conditions.

RESPONSIBILITY IN RUNAWAY HORSES AND TEAMS.

- 1. If a horse naturally quiet to ride and drive is frightened by a railroad train, steam thrasher, or other causes, not under the control of the rider or driver, does any damage, or injures any person or persons, the owner is not responsible.
- 2. If horses are known to be vicious, or sustain a runaway reputation, break loose or run away with their driver, or injure any person or persons, the owner is responsible, unless it can be shown that the horses were frightened by some obstacle which would naturally frighten a gentle or ordinarily quiet horse.
- 3. A person owning or driving a cam must always use proper caution and ordinary diligence, in order to escape any damages that may be done in case his team should break loose and run away.
- 4. If a person enters the barn or pasture of another, and is injured by a vicious horse or bull, it must be shown that the owner used all reasonable means in the care of his animals for the safety of his help and neighbors.
- 5. If a person enters upon the land of another, and is injured, he must show good cause for entering upon said land, and also prove ordinary caution, in going where cattle and horses were kept.

TRESPASSING ANIMALS.

If cattle, or horses, or sheep, or hogs, or chickens, or dogs, or any other animals trespass upon the land of a neighbor, they cannot be injured or killed by the owner of the land upon which the trespass is committed, no matter how often repeated. The law regulates these matters by damages, and every innocent person is protected, and generally fully compensated for all damages caused by trespassing animals.

Many States and local authorities have laws by which trespassing animals can be taken up, and either held by the party upon whose land the trespassing is committed or placed in a public corral or pound. They are kept there at the expense of the owner, and damages or fines or both must be paid before the animals can be taken or removed by the owner.

FENCE LAWS.

- I. Fence laws are generally regulated by State statutes of local authorities.
 - 2. A few general laws are commonly held in all the States.
- 3. Legal Fence.—First find out from the state statute or local law what constitutes a legal fence. A legal fence is generally a four foot fence with sufficient boards or wire, or both, to turn cattle and sheep.
- 4. If cattle or horses break through fences in any way defective or neglected, the owner of the cattle or horses doing the damage is not responsible, if it was not his fence, or the injury brought about through his neglect.
- 5. Every man is compelled to look after his own part of the fence and keep it .. good repair, and look out and restrain his own animals in trespassing upon the lands of another.
- 6. Owners of adjoining cultivated lands are required to make division fences in common.
- 7. In erecting a division fence according to law, half of it may be placed upon the adjoining land. No man has a right to build a fence on another man's land, unless there is a law that will permit him to do so.
- 8. Fences are fixtures that pass with the sale of land. Posts or boards that have been used as fences on a farm, though when the farm is sold are piled up, and not used at the time for fencing purposes, cannot be removed as personal property.

LAWS OF THE PUBLIC ROAD.

E. Public Roads are those which are laid out and supported by officers entrusted with that power. Their care and control are regulated by the statutes of the different States, and in detail will not be referred to here, as they can be easily looked up by those who desire information so entirely local.

2. Ownership.—The soil and the land remains in the owner, who may put the land to any use, and derive from it any profit, not inconsistent with the rights of the public. If the road is at any time discontinued, the land reverts back to the owner.

3. Liability.—The repairing of highways is usually imposed upon towns, and they are made liable by statute for all damages, against persons or estates, from injuries received or happening in consequence of a neglect of duty on the part of the officers having the same in charge.

4. Laws of the Road.—Persons traveling with carriages or vehicles of transportation, meeting on any public way, are required to turn their carriages or wagons to the right of the center of the road, so far as to 'ermit such carriages or wagons to pass without interruption.

5. Runaways.—The owner of a runaway horse or horses if negligent, or not exercising due care, is responsible for all damages that may occur.

6. Any unreasonable occupation of the public way, whether arising out of a refusal to turn out and allow a more rapid vehicle to pass, or from an unjustifiable occupancy of such a part of the road as to prevent others from passing, will render the party so trespassing liable for damages to any suffering injuries therefrom. A loaded vehicle must turn out, and allow those to pass who may reasonably and lawfully travel faster.

Petition for Laying Out a Road.

To the Commissioners of the Town of Lisle,

Country of Du Page, and State of Indiana.
Your petitioners of the town of Lisle would respectfully represent that the public convenience and wants require that a road and highway should be laid and constructed, beginning at the Northwest corner of J. D. Wild's farm, in the town of Lisle, and leading in a direct line South

to the town of Bennington.
Your petitioners would therefore ask that your honors would view the premises, and locate and construct said road and highway, according to the laws in such cases made and provided, as shown by the Statutes of the State.

(Signatures.)

(Signatures.)



THE RESPONSIBILITY OF OWNING A DOG.

- 1. Dogs must be kept upon the owner's premises, unless accompanied by the owner or some member of the family.
- 2. If a dog annoys travelers upon the public highway by scaring horses and frightening children, the owner is responsible for damages.
- 3. The owner of a dog is responsible for damages caused by his dog trespassing upon the public highway in running after teams or doing other damages.
- 4. If a dog not accompanied by its owner annoys travelers upon the public highway, he may be killed, without any claim of damages on the part of the owner of the dog. When a dog becomes a nuisance he may be killed anywhere except on the owner's premises.
- 5. If a dog kills sheep or destroys or injures any other domestic animals, the owner is responsible for damages.
- 6. Every owner of a savage and dangerous dog must keep him properly chained or otherwise secured that no injury may be done to others.
- 7. If a person on a social or business errand is bitten or otherwise injured by a savage dog on the premises of the owner, the owner is responsible. Dangerous animals are not permitted to run at large, even on the owner's own premises, unless he has sufficient safeguards to protect his neighbor against injury.



EARLY CALIFORNIA MINING.

LAW GOVERNING MINES AND MINERS.

- 1. The General Rule.—Laws differ in different States and Territories, but there are some general principles and general laws which apply to all States and Territories. The first thing a prospector should do is to find under which laws the Territory or State is governed, and then by inquiry determine the steps necessary in order to legally locate the claim. But the following principles will apply to all unless recent changes have taken place:
- 2. How to Stake Off a Claim.—If there is evidence of mineral in paying quantity, and the property is not owned by a private party, the miner is entitled to stake off the land, and is entitled to it according to the law of the State or Territory in which the ore is found. Caution must be taken to stake off the claim and give correct boundaries, or an application for a patent will be refused. The claim must be located according to law, and publication made by inserting the notice in some weekly newspaper for ten consecutive weeks, and a notice must be posted on a conspicuous part of the claim staked out.

- 2. An Adverse Claim.—An adverse claim, to be effective, gnust be made out in proper form and filed in a proper legal office during the period of publication of the application for the natent. The adverse claimant must commence suit in proper form within the required time, and runs a risk if he trusts the uncertainty of the United States Mail. He must set forth in detail the facts on which he bases his adverse claim.
- 4. A Foreigner.—A foreigner may make a mining location and dispose of it if he becomes a citizen before disposing of the mine.
- 5. A Prospector.—A prospector with a discovery claim is allowed sixty days to sink a discovery shaft to the distance of ten feet. At the place of discovery it is customary to post a notice.

Notice of Location.

Notice is hereby given. That the undersigned having complied with the requirements of Section 2024 of the Revised Statutes of the United States, and the local laws, customs and regulations of this district, have located fifteen hundred feet in length by six hundred feet in width, on this, the California lode, vein or deposit, bearing gold, silver and other precious metals, situated in Levan Mining District, Juab County, Utah, the location being described and marked on the ground as follows forwit as follows, to-wit:

Commencing at this monument and running 300 feet easterly, thence Commencing at this monument and running sow feet easterly, thence 8,000 feet southerly, thence 600 feet westerly, thence 1,500 feet northerly, thence 600 feet easterly, thence 500 feet southerly, thence 300 feet westerly to point of beginning; point of discovery and corners being designated by monument, stakes or blazed trees. The above mine is located about four miles up Levan Canyon on the left hand side and about six miles west of the town of Levan.

The Mining Claim above described shall be known as the California

Located this 17th day of September, 1901. NAMES OF LOCATORS:

Richard Roe. John Doe.

- 6. Lawful Survey Made.—After sinking the shaft ten feet the miner will, if possible, have a competent and lawful survey made. But without a survey a claim will be defined sufficiently to enable a record to be made if it is marked off by stakes driven into the ground or supported by a pile of stone around each. The next step is to have a record made in the recorder's office of that county.
- 7. The Term.—The term of a mining tunnel, ditch or mining company cannot exceed twenty years. No miner has a right to undermine the improvements of another unless by legal permission. A copy of mining laws in each district will be found at the county clerk's office in the district where the mine is located.

- 8. Right of Way.—Miners have the right of way across any claim when hauling quartz. Water may be brought across any claim, road or ditch, or other mining improvement, provided it is so guarded that it does not interfere with the prior rights of another.
- 9. In Locating a Placer.—In locating a placer (that is surface or loose dirt) claim, the amount of land is limited to 20 acres to one person. An association of eight persons may locate 160 acres.
- 10. Citizens of the United States.—To secure claims from the government the miner must be a citizen of the United States, or have legally declared his intention to become such.
- who shall destroy or remove location stakes,—Any person who shall destroy or remove location stakes, except on abandoned property, shall be liable to a fine of \$1,000 and one year's imprisonment.
- 12. Jumping a Claim.—The person jumping a claim owned by another and gaining the same by threats or violence shall be liable to a fine of \$250 and imprisonment in the county jail for six months.
- 13. United States Law.—The United States law allows five acres to be taken as a claim for a mill site, but the site must not be upon known mineral lands. Sometimes the district regulations restrict the amount to much less dimensions.
- 14. Change the True Value.—Any person engaged in milking, sampling, reducing, shipping or producing ores, who shall mowingly change the true value of the same, whereby the owner such ore shall not obtain its true value, shall be liable to a fine \$1,000 and one year's imprisonment.
- 15. "Salting."—"Salting" a claim, that is, taking ore from mother mine and placing it in the one that is to be sold, thereby the purchaser, is punishable by a fine of \$1,000 and confinement in the State prison fourteen years.
- where of a quartz mill, mill furnace or cupel, engaged in extracting ort, who shall neglect or refuse to account for and path the owner of the quartz or mineral all sums which shall be due, except such as may be retained for services, shall be liable to a factor of \$1,000 and imprisonment not exceeding one year.

HOW TO LOCATE A MINE.

- I. Who May Locate a Mine.—Any person of lawful age who is a citizen of the United States or shall have legally declared his intention to become such may locate a mine.
- 2. Must Be Actually Discovered.—A mineral bearing ledge, lode or vein must be actually discovered on the claim it is proposed to locate.
- 3. The Ground Entitled to.—Unless the width is modified by the laws of a local mining district, the ground entitled to with a mining claim is 1,500 feet along the ledge by 300 feet each side of the ledge, or 600 feet wide.
- 4. Point of Discovery.—The point of discovery may be within any part of the 1,500 feet.
- 5. Boundary Description.—In the boundary description of a mine use the terms easterly and westerly, northerly and southerly instead of the more positive terms east, west, etc.
- 6. General Description.—Make the general description as short as possible, and mention adjacent or neighboring mines, distance and direction, well-known natural objects, or permanent monuments.
- 7. Location Notice.—The location notice must be posted at the point of discovery. The corners of claims must be marked by blazed trees, stakes or monuments.

About five days are allowed to post up location notice, and from ten to thirty days to have the same recorded. Record with the district recorder, or if an unorganized mining district, record with the county recorder. If not in actual personal possession of the proposed location, post location notice and have it recorded as soon as possible.

- 8. Assessment Work.—To hold a mine \$100 worth of assessment work in labor or improvement must be done on it annually, and the calendar year in which to commence the assessment work begins with the January following the fractional year in which the location is made.
- 9. Two or More Locators.—Two or more locators on the same ledge may consolidate and do the amount of their combined assessment work on one claim of the group.
- to. How to Obtain a Patent.—The affidavits of assers, sessment work by two credible witnesses should annually be filed

with the district or county recorder. When \$500 worth of assessment work has been done on a mine a patent to it may be obtained from the Government.

MONEY.

Definition.—Any material that by agreement serves as a medium of exchange and measure of value in trade. The earliest money of our country was wampum, beads, pieces of cloth, corn, cattle, etc.

Gold and Silver.—Gold and silver have, from the earliest times, been used by all commercial nations as either customary or legalized money.

Functions of Money.—It is a commodity—having a value of its own. It is a common measure of values. It has general exchangeability, and hence is a general medium of exchange.

Bullion-Gold or silver in bars, or ingots, uncoined.

Kinds of Money in Use.—Gold coins of \$20, \$10, \$5 and \$2½; silver coins of \$1, 50 cents, 25 cents and 10 cents; nickel 5 cent coins; cents; United States notes ("greenbacks"). Treasury notes; United States gold certificates, issued upon deposits of gold coin; United States silver certificates, issued upon deposits of silver dollars; United States currency certificates, issued on deposits of United States notes, to National banks only (issue now suspended); National bank notes issued by National banks.

Subsidiary Coin.—Silver coin of 50 cents, 25 cents and to cents.

Minor Coin.—Nickel 5 cent pieces and cents.

Legal Tender.—Lawful money; money which may be offered in payment of debts. Gold is the only absolute legal tender in the United States. Silver dollars, greenbacks and Treasury notes, and fractional silver coins in amounts of \$10 and less, are a legal tender, except where otherwise stipulated in the contract. Gold certificates, silver certificates, currency certificates and National bank notes are not a legal tender, but are receivable for public dues, except the latter, which are not receivable for custom. Foreign coins are not legal tender in the United States.

Sound Money.—Standard money; no depreciated dollars. Fiat Money.—The doctrine that the Government can make

paper, leather or any other material into money by simply putting its stamp upon it, without reference to its redemption in coin.

Amount in Circulation.—From a report of the Secretary of the Treasury, the following interesting items are taken: The amount of money in circulation in our country in 1860 was \$435,407,252; in 1880 it had reached \$973,382,228; in 1890, \$1,429,251,270, and in 1909 \$3,113,058,601. In 1860 the circulation per capita was \$13.85; in 1880, \$19.41; in 1890, \$22.82, and in 1909, \$35.01.

The Monetary Question.—The question of what should be the medium of exchange has in the last few years grown into a problem of such magnitude that it has resulted in the formation of what is practically a political party.

MINTS.

Definition.—A mint is a place where the coin of a country manufactured, and from which it is issued by sovereign or public authority.

First Mints.—The first United States mint was established at Philadelphia by the coinage act of April 2, 1792. The first coinage of the United States was silver half-dimes and copper cents. The first building erected in the United States for public use, under the authority of the Federal Government, was a structure for the United States mint. This was a plain brick building and was occupied for forty years.

Branches.—Branches of the Philadelphia mint were organized at New Orleans, Dahlonega, Ga., and Charlotte, N. C., in 1835; San Francisco, Cal., in 1854, and at Carson City, Nev., in 1870. Those at Dahlonega and Charlotte have been given up.

Mint Marks.— These are letters or marks on the coir designating the mint at which it was struck, as "S" for San Francisco; "C. C." for Carson City; "O" for New Orleans. The coins struck at the parent mint in Philadelphia bear no mint mark.

Assay Offices.—These are places where coins are examined to determine their economic value. Assay offices are located at Boise City, Idaho, Charlotte, N. C., Helena, Mont., New York and St. Louis. An assayer in charge is appointed over each of these offices.

PARLIAMENTARY RULES.

Public Meetings, Political Gatherings
and Debating Societies.

CONDUCTING PUBLIC MEETINGS.

In every community it is necessary to hold public meetings from time to time, and in order to expedite the proceedings of such meetings, as well as to settle matters of dispute, it is necessary that rules of proceedings be adopted. In order to be able to take an intelligent interest and part in such meeting, it is essential that young and old be informed on the most important points of parliamentary rules.

Ladies.—This does not include men only, for we are living in a time when women are called upon to carry on a public meeting as well as men. Then, again, women are taking a much more active part in public affairs than formerly.

The following suggestions, together with the three hundred points of order, if carefully followed, will be very helpful in conducting any public meeting.

The chairman selected should be a man of maturity and one held in general respect and confidence.

Any person of standing may call the meeting to order, and put the motion for the election of chairman.

Upon taking the chair, a few remarks by the chairman are generally expected.

The chairman should have a clear voice, positiveness of manner and self possession.

When a motion is presented to the meeting and seconded, it should be stated or read by the secretary or chairman, and remarks called for.

After debate, the motion should be put to the meeting, the chairman announcing the result.

No speaker should be interrupted unless his remarks are out of order, when he should be called to order by the chair. If the chairman fails to call him to order any member may do so.

19 Standard.

Any violation of rules must be recognized and checked by the presiding officer, or demoralization must result.

When a member is called to order by the president, he should take his seat, unless he is permitted to explain.

It is the privilege of any member to call for the yeas and nays and thus put on record the vote of every member.

OVER THREE HUNDRED POINTS OF ORDER.

Trace up each reference at the right, and then look up the corresponding numbers on opposite page, which will give the full information desired.

- 1. Question undebatable; sometimes remarks tacitly allowed.
- 2. Undebatable if another question is before the assembly.
- 3. Debatable question.
- 4. Limited debate only on propriety of postponement.
- 5. Does not allow reference to main question.
- 6. Opens the main question to debate.
- 7. Cannot be amended.
- 8. May be amended.

9. Can be reconsidered.

10. Cannot be reconsidered. 1i. An affirmative vote on this question cannot be reconsidered.

12. Requires two-thirds vote, unless special rules have been enacted.

Simple majority suffices to determine the question.

Motion must be seconded. 15.

Does not require to be seconded. Not in order when another has the floor. 16.

17. Always in order though another may have the floor.

18. May be moved and entered on the record when another has the floor, but the business then before the assembly may not be put aside. The motion must be made by one who voted with the prevailing side, and on the same day the original vote was taken.

Fixing the time to which an adjournment may be made; ranks

first.

- 20. To adjourn without limitation; second. 21. Motion for the Orders of the Day; third.
- 22. Motion to lay on the table; fourth. Motion for the previous question; fifth.
- Motion to postpone definitely; sixth. 25.

Motion to commit; seventh,
Motion to amend; eighth.
Motion to postpone indefinitely; ninth.
On motion to strike out words, "Shall the words stand part of the

22. On motion to strike out words, Shall the words stand part of the motion?" unless a majority sustains the words they are struck out.

29. On motion for previous question the form to be observed is: "Shall the main question be now put?" This, if carried, ends debate.

30. On an appeal from the chair's decision, "Shall the decision be sustained as the ruling of the house?" The chair is generally sustained.

31. On motion for Orders of the Day, "Will the house now proceed to the Orders of the Day." to the Orders of the Day?" This, if carried, supersedes intervening mo-

When an objection is raised to considering question, "Shall the question be considered?" objection may be made by any member before debate has commenced, but not subsequently.

POINTS WORTH REMEMBERING.

Except in vote by ballot, the chairman can vote only when the meeting is equally divided, or when his vote given to the minority would make the division equal.

That speaker is listened to with attention who speaks only when he has something to say.

Speak on the question before the meeting. Make your point and stop when you have made it.

Any ruling by the chairman may be appealed from and decided by a vote of the house.

When several persons rise and claim the chairman's attention at the same time, preference should be given to the one who first caught the chairman's eye.

The chairman is the servant and not the master of the house. When a point of order is raised the person speaking should cease and wait the decision of the chair.

To get rid of an undesirable chairman the house may refuse to do any business or may adjourn.

COUNTERFEITING, GAMBLING, BETTING AND SWINDLING.

SWINDLING.

HOW TO DETECT COUNTERFEIT MONEY.

- E. A Counterfeit is a fac-simile of the genuine, or made as nearly like it as possible. A spurious note is different in design from the genuine and is calculated to pass where the genuine is not much known. An altered note is one altered from a tower to a higher denomination. Piecing is done by making ten notes or bills out of nine, by cutting a counterfeit note into ten pieces.
- 2. There are two silk threads through the bill lengthwise, one near the top and one near the bottom. By holding it up to the light you can easily see the threads in each bill. This is one of the best tests of a genuine bill, because no counterfeiter can put in the silk threads and imitate the genuine bill in that respect.*
- 3. See that the portraits are good, and notice that the pupil and the white of the eye show distinctly. Then see that the sky and water are clearly transparent. In counterfeit notes the pictures are always poor and the sky, water, etc., look scratchy and irregular.
- 4. The ink used in genuine notes is very difficult to imitate. It gives a clear, glossy expression, while counterfeiter's ink looks dull, smutty and muddy.
- 5. The paper of a counterfeit is always of an inferior quality, while the government has the best and most perfect system of manufacturing the highest grade of paper.
- 6. Examine the medallion rulings and circular ornaments around the figures with a microscope, and see if they are regular and in all parts mathematically exact. This is done by a machine that costs from \$75,000 to \$150,000, and consequently is

*Office of Treasury, U.S., Oct. 5, 1897.
The present issue of notes has distinctive fibres distributed across and apar the ends of the notes. Former issues had fine silk threads running exotheries of the paper near the tep and the bottom of the notes.

ELLIS H. BOBERTS, Treasurer, U.S.

beyond the reach of counterfeiters. Engravings by hand can never imitate this work. These medallion ines, or rulings, can be traced by means of a line through the figures, never breaking or losing itself in another line. In counterfeit it is always broken and irregular.

- 7. Notes are altered by raising the denomination by taking out the genuine with acid and printing in a higher denomination with a counterfeit die. They can be easily detected by the stain which the acid produces with which the figures are taken out.
- 8. Never Be in a Hurry in Taking Money.—Look at it carefully, and never hand a bill of large denomination to a showman, especially at the tent of these traveling circuses or at the door of cheap theaters. If they have counterfeit money they will not hesitate to mix it up in the change they return to you.

GAMBLING AND BETTING.

- 1. Every Device that suddenly changes money or property from one person to another without leaving an equivalent produces individual embarrassment—often extreme misery. More pernicious is that plan, if it changes property and money from the hands of the many to the few.
- 2. Inflicts Injury.—Gambling does this, and often inflicts a still greater injury, by poisoning its victims with vice that eventually leads to crimes of the darkest hue. Usually, the money basely filched from its victims is the smallest part of the injury inflicted. It almost inevitably leads to intemperance. Every species of offense on the black catalogue of crime may be traced to the gambling table, as the entering wedge to its perpetration.
- 3. Innocent Amusement.—To the fashionable of our country, who play cards and other games as an innocent amusement, we may trace the most aggravated injuries resulting from gambling. It is there that young men of talent, education and wealth, take the degree of entered apprentice. The example of men in high life, men in public stations and responsible offices, has a powerful and corrupting influence on society, and does much to increase the evil, and forward, as well as sanction, the high-handed robbery of finely dressed blacklegs. The gambling hells in our cities, tolerated and patronized, are a

disgrace to a nation bearing a Christian name, and would be banished from a Pagan community.

- 4. Variety of Forms.—Gambling assumes a great variety of forms, from the flipping of a cent in the bar room for a glass of whiskey up to the splendidly furnished faro bank room, where men are occasionally swindled to the tune of "ten thousand a year," and sometimes a much larger amount. In addition to these varieties, we have legalized lotteries and fancy stock brokers, and among those who manage them professors of religion are not unfrequently found.
- 5. Gaming.—Gaming cowers in darkness, and often blots out all the nobler powers of the heart, paralyzes its sensibilities to human woe, severs the sacred ties that bind man to man, to woman, to family, to community, to morals, to religion, to social order, and to country. It transforms men to brutes, desperadoes, maniacs, misanthropists, and strips human nature of all its native dignity. The gamester forfeits the happiness of this life, and endures the penalties of sin in both worlds.
- 6. Betting on the Races.—Look for greatness and goodness on the race track. Where is it to be found? The men who have paved their way to the front in achieving success have never been the companions of jockies or gamblers. Those who follow the races will live to seriously regret their folly.
- 7. Shun the Monster.—Let me entreat all to shun the monster, under all his borrowed and deceptive forms. Remember that gambling for amusement is the wicket gate into the labyrinth and when once in, you may find it difficult to get out. Ruin is marked in blazing capitals over the door of the gambler; his hell is the vestibule to that eternal hell where the worm dieth not and the fire is not quenched.
- 8. Terrible Consequences.—The youth should not forget that if he is once taken in the coils of this vice, the hope of extricating himself, or of realizing his visions of wealth and happiness, is exceedingly faint. He has no rational grounds to expect that he can escape the terrible consequences that are inseparably connected with sin. If he does not become bankrupt in property he is sure to become so in character and in moral principle; he becomes a debauched,



SWINDLING SCHEMES.

Six Practical Rules to Remember.

1. Beware of the Swindler.—He is everywhere and in all kinds of business.

2. Never sign a paper of any kind for a stranger. Make every man unknown to you, who desires to do business with you, prove to you, beyond a doubt, that his business is legitimate

and that he acts within the limits of his authority.

3. Never try to beat a man at his own game. The sharpers at every fair and circus and other places where people in large numbers congregate will always offer you great inducements with cards, dice, wheels of fortune, etc. They will urge you to bet on a certain card or number and show you how one dollar could have won \$20.00 or \$100.00; but when you bet your money, you never win.

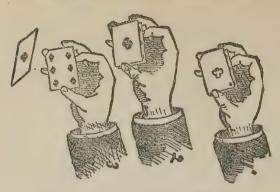
4. Never bet or gamble. In trying to get something for nothing, we too often find ourselves the victims of confidence and swindling schemes. Honesty is the best policy, always has

been and always will be.

5. Never try to get the best of a sharper by buying a box, watch-case, or anything else in which you have seen him put a

\$10 or \$20 bill.

6. Deal with responsible parties, or see that the article is worth the price before paying for it, and you will never suffer the mortification of being swindled.



THE CARD SWINDLER'S TRICKS.

How People Lose Their Hard-Earned Money.

- 1. The Three-Card Monte Trick.—The three-card monte game is, of course, the old one and the best one known to get the greenhorn's money.
- 2. The successful three-card monte player generally appears in the disguise of a farmer or cattle man, he speaks in the farmer's tone and acts in the farmer's manner and is dressed in the farmer's style. He appears ignorant and manifests more or less intoxication. Generally has his pockets full of rolls of money.
- 3. The Game.—The cards are three in number and are made especially stiff so that they will hold a corner when turned.
- 4. The Capper.—Every monte player has a capper. A capper is a green, ignorant looking man, who always plays the game and wins a great deal of money. This is done to induce others to play the game. The capper and gamblers are generally in partnership.
- 5. The first turn the capper wins. Then he turns the corner of a card when the player is not looking, and his friend thinking he has a sure thing bets on the card. In manipulating them the player flatters that card, with some sleight-of-hand movement, and turns the corner of another. The betting man of course picks up the wrong card and loses his money.
- 5. The capper sometimes marks the card by putting a wet

from the right card has been wiped off and the spot put of another card by the same sort of sleight-of-hand performance.

- 7. There are some three-card monte players that are such experts at the game that the capper will tear off the corner of a card, and the innocent farmer betting on the card thus marked finds it has been turned under the corner of another card and the corner of the right card is covered up with the corner of another card.
- 8. Beware.—The man who is fooling with cards and offering to bet is not fooling away his money. You will never win anything in that way. Do not try to get something for nothing and think you have a snap; for if you play the game with some one else you will soon become a wiser but a poorer man.

THE PATENT FENCE SWINDLE.

It is an old but true maxim, that "experience is an expensive teacher," but many will learn in no other way. The wire and picket fence combination is a good article for fencing gardens, etc., too expensive, however, for general use.

An agent, very nicely dressed, meets you in your garden or field, and shows you extensive engravings of the patent combination fence. He warrants the fence to be just as represented, 44 pickets to the rod, well painted, firmly fastened by six galvanized steel wires, etc. All of this he agrees to furnish at the low price of 20 cents per rod.

After convincing you of the cheapness of the fence, which is easily done, he offers you a special discount to take the agency for your township, for which you are to advance your credit to the amount of \$128. After securing your note he sends you a sample of the fence. But you soon find that the fence cannot be made for any such price per rod, and you are out of the amount of credit advanced. The note has been sold, and after passing into the hands of an innocent party it can be collected.

- man who asks you to sign a note to secure an agency is swindler, or is acting the part of a rascal for some one else.
- 2. If the fence was not a fraud, our hardware merchants would long ago have investigated !; and if a good thing, would

have it in stock. It must be a poor concern that necessitates such an unbusinesslike introduction.

- 3. Whoever deals with an agent deals with him at his own risk, for an agency can be revoked at any time.
- 4. Most of those swindling contracts are for no specified time and consequently the agency can be terminated at the pleasure of the swindler.
- 5. Never sign a paper for an agent without satisfactory, knowledge of his character, or of his business.



THE FARM-MACHINERY SWINDLE.

The latest scheme for fleecing unwary farmers is as follows: A plausible, well-dressed fellow drives up to the farmer's house with two or three different kinds of farm-machinery, and asks permission to store his machines in the farmer's barn, and the accommodating farmer usually gives permission.

After the machines are stored away, the sharper remarks that they are the last of a large lot that he has been selling through the country, and that he is anxious to close out the consignment, and if the farmer will sell two or more of the machines while they are stored in the barn, he shall have 50 per cent. commission on the sale. The offer is a tempting one, and the farmer usually accepts. He is then requested, merely as a business form, to affix his signature to a document, specifying the terms on which the machines are stored on the premises. The farmer signs a lengthy printed document without reading it, or perhaps if read without understanding it. At the expiration of thirty days he is astounded by finding hinself called the constitution of the stores.

stranger to pay an exorbitant price for the machines stored in his barn. When the farmer objects, he is shown his signature attached to an agreement, which agreement, his lawyer tells him, is drawn in good legal form.

The victims of this game usually lose from \$200 to \$500.

ALWAYS READ BEFORE SIGNING.

Among the pithy sayings of a well-known German philosopher and reader occurs the following: "Sign no paper without reading it." In these days of education, enlightenment and progress, such a caution would hardly seem necessary to any person in the full possession of his faculties; yet it is astonishing how many people there are, including good business men, who attach their signatures to papers or documents whose contents may have a serious bearing upon themselves or their affairs, with scarcely a glance at their contents. Carelessness in failing to acquaint themselves with the contents of a paper before signing it has worked incalculable harm to thousands of well intentioned people. It is a good thing, therefore, to bear in mind continuously the above quotation, particularly with respect to such papers as express or imply anything in the nature of a contract or a legal obligation.

THE ENVELOPE SWINDLE.

1. The envelopes filling an ordinary box each have slips inclosed marked with numbers corresponding with numbers in a show case. There are generally numerous cappers around a game of this kind who play and win large prizes.

2. Many of the envelopes contain a double ticket and the man who plays the game generally opens the envelopes himself when there is nothing at stake and shows you the winning number, but when you draw it he will show you the other slip that contains the other number and you are the loser.

3. Many of these players give a lot of brass or silver washed prizes that are worth about two or three cents apiece.

4. If you desire to make money, remember that the man who plays games does not go around the country giving away money, but they are generally the sharpest and shrewdest of gamblers, and if you desire to be safe have nothing to do with them, and remember, "that an honest man never gambles."

A SWINDLING NOTE.

Naperville, Ills., Oct. 20, 1901.

order Four Hundred and Seventy-five Dollars (\$475.00) worth of Potent Faming Mills for value received, at ten per cent, per annum. Said ten dollars when due is One year after date, I promise to pay Fred. J. Davis. .. bearer Ten Dollars, when I sell by payable at Naperville, Illinois.

C. E. Selby, Agent for Fred. J. Davis.

Witness: M. J. Moyer.

still continues to add yearly to its list of victims. A paper is drawn up wherein a farmer agrees to Although the above scheme of the confidence man has been exposed time and time again, yet it pay ten or twenty dollars when he has sold goods to a given amount. By tearing off the right hand end of this paper, what is apparently an agreement for a small amount becomes a promissory note for a considerable sum. This note is sold at a bank, thereby becoming the property of a third and innocent party, and the signer of the agreement is called upon to pay the note.

Never sign a paper without carefully reading and examining the same. It is dangerous to high a paper for an unidentified stranger

COUNTERFEIT MONEY SWINDLE.

This scheme has long been practiced in different parts of the country, yet the victims are numerous, hundreds being added annually to the list.

It is simply a shrewd system of black-mailing, and worked as follows: The swindlers or black-mailers (as they can more properly be called) get together, make up plausible circulars, and secure advertisements in local newspapers in the territory which they intend to work up. The "gang" has a number of schemes, but the favorite one is to send some person, who has answered their circulars, a genuine new bill, and to get him on pretense to see if it is good. As the bill is genuine there is no difficulty in passing it. The dupe is then informed that he will be supplied with any amount of similar good money at a trifling cost.

If the man bites the tempting bait placed before him, he is made to sign a document which he is told admits him to membership in a secret society known as the Y. F. A. R., and the money is to come in a few days. Instead, however, a man makes his appearance who represents himself as a United States officer; he shows up the document signed by the poor fellow, which practically proves to be a confession of circulating counterfeit money, and calls attention to the bill which he passed.

The victim is told that he must go to Washington and be tried by a United States Court, and the penalty for making and passing counterfeit money is also read. He is cleverly told the long delay at heavy cost and the sure penalty.

When the victim is sufficiently wrought up, the officer offers to compromise for all the way from \$200 to \$2,000. The money is paid or secured, the document torn up and the dupe released.

Note.—A man who is caught in a swindling scheme of this kind is utterly helpless and at the mercy of his captors. He can not go to officers and make complaint against the rascals without exposing himself, because he never would have been caught in the trap had he not shown a willingness to handle and pass counterfeit money, and consequently is as guilty as the swindler in the eyes of the law.



A SWINDLER SECURING THE SIGNATURE OF HIS VICTIM.

THE BARB-WIRE SWINDLE.

The "Wire Fence Man" is a new swindler working the farmers. The scheme is a shrewd one and is executed as follows: A nicely dressed man, very pleasant in his manner, meets the farmer in his field or at his home, and desires the privilege of exhibiting his wire fence stretcher machine, for which privilege he will build the farmer thirty or forty rods of good fence for exhibition. All the agent asks is board while he is at work on the fence, with the understanding that the farmer is to go after the machine at the nearest depot and pay the charges, not to exceed \$3 for the fence, all set up where he wants it. In order to have everything understood, and as a warrant of the farmer's good intentions, he requires him to sign a written order on a postal card, which he mails (as he says) to his partner, which. proves to be a written contract for the machine, price \$200 (worth less than \$25). After the machine comes, a new man turns up with the postal order for the machine, and requires the payment of \$200 as per agreement on the card. He claims to be an attorney for the company and threatens to sue in the highest courts until he secures the payment of the order.

When will people begin to study the "Safe Methods of Business" and learn that it is not safe to sign a paper for a stranger?

THE LIGHTNING-ROD SWINDLE.

Contract.

Naperville, July 8, 1901.

F. Hauswirth.

- In the blank for cents....., the canvasser or agent puts in some single figure, say 7, that being understood to be the regular price per foot, but after the contract is signed, the agent at his leisure quietly inserts a 6 before the 7, or some other figure, making the amount 67 cents per foot instead of 7 cents, as signed and agreed upon.
- 2. A swindling note is generally obtained, and the contract is kept in the background; but when the collector comes along and presents the note backed by the contract in plain figures, the farmer sees that he himself has been struck by lightning while trying to protect his house.
- The note is generally in the hands of an innocent party, and according to law may be collected.
- 4. The agent canvassing the victim generally promises that the rodding of the house shall not cost over \$28.00 or \$35.00. But that man, however, never appears on the scene again.
- 5. Never deal with irresponsible persons. If you desire rods, employ your hardware merchants; or if you desire anything in the machinery line, patronize honest and trusted dealers, and take no chances of "being taken in."



DON'T TRY TO GET SOMETHING FOR NOTHING.

THE CHEAP JEWELRY SWINDLE.

Experience has proven again and again that there is nothing gained BY TRYING TO BEAT A MAN AT HIS OWN GAME and succeed in getting something for nothing.

The auctioneer starts out, after getting a crowd about him, by giving back to the purchasers more money than they paid for the article, but this does not generally last long. Higher priced articles are soon put up, such as watches, etc., and the price raised from 50 cts., or \$1.00 to \$10.00 or \$20.00. The purchaser sees the seller stick a \$20.00 bill or a \$50.00 bill into the watch and close it up, and so sure are the spectators that they saw the money go into the watch that there is no lack of purchasers. But when the watch is purchased and opened it contains a \$1.00 bill instead of a \$20.00, and the purchaser is a wiser, but not a richer man.

Bookkeeping.

HOW TO LEARN BOOKKEEPING.

- 3. Mathematics.—Bookkeeping is purely a branch of mathematics, and every one should be familiar with the rules and principles of common arithmetic.
- 2. Ignorance.—It is lamentably true that people do business all their lives, settle accounts and transact various kinds of business, and never know anything about the first principles of bookkeeping. They settle all their accounts according to somebody else's bookkeeping. There is no excuse for the younger generation to be ignorant of the principles of bookkeeping. It is easily acquired and may be self-taught if a young man or woman has any degree of perseverance.
- 3. How to Learn.—If you cannot get book-keeping in the common or public school, secure some primary work on book-keeping and devote your evenings to study, and you will be surprised at your progress. You can easily, if necessary, secure the assistance of some one that is familiar with the subject But this will be scarcely needed, as the subject of bookkeeping is simple as well as interesting.
- 4. Necessity for Bookkeeping.—The particular necessity for bookkeeping is to preserve a record of such exchanges as would otherwise be trusted to memory; although its ultimate purpose embraces other important results. Bookkeeping is nothing more nor less than a history of business; a record of business transactions.
- 5. A Successful Man.—A man who is successful in business invariably keeps a correct record of his transactions. He does not depend upon the merchant or lumberman with whom he deals, but he has all his own records correctly kept and by that means proves every account of those with whom he deals. Keep your own accounts; do your own figuring and never trust to the accounts or figures of others. It is the only sure road to success.

RULES FOR BOOK-KEEPING.

- 1. The Law of Debit and Credit.—The first thing that a student must learn in book-keeping is the law of Debit and Credit. Debit and Credit are terms used to express the relation which exists between persons or commodities that enter into any business transaction. The simplest meaning of debit is to charge, and of credit, to trust.
- 2. Cash.—Cash is a title used to designate money. We include under it currency, bank checks, sight drafts, postal orders, etc.
- 3. Merchandise.—Merchandise includes all goods and wares dealt in by the concern as a business, and which are in store or stock.
- 4. Bills Payable.—Bills payable are our notes or written obligations which others hold, for which we are to pay a certain amount when due. If you give your note it is a Bill Payable.
- 5. Bills Receivable.—Bills receivable are other persons' notes or written obligations, which we hold, for which we are to receive a specified sum when due.
- 6. Debit and Credit Side.—When anything is received or bought, it is always placed on the left hand or debtor side; when money is paid or anything sold, the amount is always placed on the right hand or credit side of the account. If a man buys goods on credit, you charge him, and he then is a debtor. When he pays the amount, he then is credited in the books.
- 7. The Day Book.—The Day Book affords a regular daily history of the business. The Day Book simply states what has been done and is called in law the Original Book of Entry. The form of the Day Book is simple and direct, first giving the name of the person to be debited or credited with the fact of "Dr." or "Cr.," and next, the detail of the purchase, sale or payment, with the final extension of the amount in the proper column.
- 8. The Ledger.—The Ledger is simply a classification of accounts. It places all the accounts together that belong under the same heading. (See Ledger.)
- 9. Posting.—The student will first copy the Day Book with much care, then post the items to the Ledger—indicating

in the margin of the Day Book the page or number of the account in the Ledger, as shown in the written-up set—next construct a Day Book and Ledger of your own from material thus selected, and you will soon master the subject of bookkeeping.

SYSTEMS.

There are two systems of bookkeeping. Single Entry and Double Entry.

In Single Entry, accounts are opened only with individuals, the books used being the Day Book and the Ledger.

In Double Entry, business transactions are recorded so that each entry has a debit and a credit of equal amounts. Here accounts are kept with both persons and things.

MODERN BOOKKEEPING.

With the increase of business and the resulting increase of labor in keeping books the tendency in recent times is to simplify and to make practical the methods of keeping accounts. Whatever tends to save labor and at the same time gives the business man an insight into his financial standing is accepted in preference to the old methods. What concerns the business man most is what he owes others, what others owe him, and what he possesses. Modern bookkeeping varies greatly from the old systems. The immense business of the department stores of our large cities has tended greatly to simplify the keeping of accounts. Since every line of business has its own peculiar features, it is more important that the young man learn the underlying principles of good bookkeeping, and then these can be adapted to any line of business. There should constantly be an effort to use labor-saving methods, at the same time facilitating the ascertaining of gains and losses and of taking balances.

LEGAL POINTS ON BOOKKEEPING. Practical Suggestions for Business Men.

1. The Day Book, or other books of original entries, is evidence of sale and delivery of goods, and work done.

2. The time to make an entry against the purchaser is when the goods are ready for delivery.

- 3. Entries, to be admissible as evidence, should be made by the proper person, and made without erasure, alterations or interlineations.
- 4. Mistakes should be corrected by marking the wrong entry void, and then making a correct entry, or if there is sufficient room, make a brief explanation.
- 5. All accounts must be itemized, and no general charge can be considered as evidence without giving the items.
- 6. If A. guarantees that he will see that B. will pay a certain bill of goods, then the goods must be charged to A. and not to B., but if A. guarantees the account of B., if the account is for some date of the past, then such a guarantee must be in writing.
- 7. To collect a debt on the evidence of book account, from a person in a distant place, a copy of the account should be made out, and accompanied with an affidavit, setting forth that the above account is correctly taken from the book of original entries, and that the charges were made at or about the time of their respective dates, that the goods were sold and delivered at or about the time the charges were made, and the charges are correct, and accounts just, and that the person named is not entitled to any credits not mentioned in the account. This affidavit should be sworn to before a magistrate, commissioner or notary public, and it will save the trouble of producing or sending books.

HOW TO DETECT ERRORS IN A TRIAL BALANCE.

No rule or set of rules can be given for the certain detection of all errors in a Trial Balance, save a careful review of the entire work. If the errors are few the following rules may be of service:

If the error be exactly \$1, \$100, \$1,000, etc., the mistake is very likely to be found in the additions either in the Ledger accounts or in the Trial Balance.

- 2. If the error is a large amount, see that all the amounts have been entered in the Trial Balance.
- 3. If an amount has been omitted in posting, the Trial Balance will be out just that amount. Look for the amount in Journal or other books.

- 4. The Cash Balance can never be on the credit side. The balance of Bills Receivable should never be on the credit side, nor the balance of Bills Payable on the debit side of the account.
- 5. If the amount has been posted on the wrong side of the Ledger the Trial Balance will be just twice that amount out of balance. Look for half that amount through the books.
- 6. If the error is divisible by 9, it is very likely that the mistake was made by a transposition of figures as, 345 posted 453 makes an error of 108, which is divisible by 9, again 753 posted 735 makes an error of 18, also divisible by 9. Errors of transposition are the most difficult to find.
- 7. If the error is in the dollar column or cents column only. the columns on the left need not be re-added.
- 8. If the above rules fail, only a careful review of the entire work, checking each entry, will determine where the mistake has been made.

TRANSACTIONS.

This Set Is Written Up in the Following Pages.

July 1.—Commenced business with the following resources: Cash, \$1,000; Merchandise, \$500.-Total investment, \$1,500.

June 2.—Sold A. C. Knox, on %, 5 bbls, Flour @ \$5.—Sold Frank Fisher 25 lbs, Coffee, @ 20¢; 15 lbs. Oolong Tea, @ 80¢. Received cash on % \$10.—Paid for drayage on merchandise \$5.

July 3.—Bought of David Spencer, on %, 50 bushels Apples, @ 50¢; 100 bushels Potatoes, @ \$1.—Sold D. N. Brown, on %, 3 bbls. Flour, @ \$5; 10 bushels Apples, @ 75¢.—Sold A. C. Knox, on %. 2 bbls. Flour, @ \$5; 25 bushels Potatoes, @ \$1.25. Received cash on % \$30.—Paid for postage stamps, \$10.

July 5.—Sold G. W. Williams, on %, 25 bushels Potatoes, @ \$1.25; 20 bushels Apples @ 75¢.

July 5.—Paid David Spencer on % \$50.—Received of A. C. Knox on % \$10. July 6.—Bought of G. N. Hudson, on 4, 10 bbls. Mess Pork, @ \$15.—Paid David Spencer on 4 \$20.

July 3.—Sold A. N. Peters, on 46, 5 bbls. Mess Pork, @ \$18.—Sold H. C. Stockbridge, on 46, 10 lbs. Oolong Tea, @ 80¢; 10 bushels Apples, @ 75¢.—Received cash of G. W. Williams in full of 46, \$46.25. Paid for help around the store \$12.

July 9.—Sold Chas. E. Henker 5 bbls. Mess Pork, @ \$17.—Received cash on same \$50.—Paid David Spencer on % \$20.

July 10.—Sold A. N. Peters, 20 bushels Potatoes, @ \$1.20, on 4.—Received of H. C. Stockbridge, cash on 4. \$10.

July 11.—Sold D. N. Brown, on 4, 10 bushels Apples @ 70t. Sold Frank Fisher on 4, 5 bushels Potatoes @ \$1.20.

July 12.—Received of A. N. Peters, cash on 4, \$100. Received of D. N. Brown, cash on %, \$25.

July 13.—Paid G. N. Hudson, cash in full of 4, \$150.—Received of D. N. Brown on % \$5.00.

July 15.-Inventory: Merchandise on hand, \$625.

DAY BOOK.

	1	-	and the state of t
	July 1.	Į.	
	Commenced business with the following resources: Cash Merchandise 500.	C at C account	
	\$1500.		
(1)	A. C. Knox, Dr. To 5 bbls. Flour, @ \$5.00,	25	
(2)	Frank Fisher, Dr. To 25 lbs. Coffee, @ 20c, 15 '' Oolong Tea, @ 80c, 12.00	17	
(2)	By Cash on account	10	
(%)	David Spencer, Cr. By 50 bu, Apples, @ 50c, \$25,00 100 " Potatoes, @ \$1,00 100,00	125	
(4)	D. N. Brown, Dr. To 3 bbls. Flour. @ \$5.00, 10 bush. Apples, @ 75c, 7.50	22	50
(1)	A, C. Knox, Dr. To 2 bbls, Flour, @ \$5,00 \$10,00 \$10,25 bush, Potatoes, @ \$1,25, 31,25	41	25
(1)	By cash on account	• 30	
(5)	G. W. Williams, Dr. To 25 bu. Potatoes, @ \$1,25, \$31,25 " 20 " Apples, @ 75c, 15.00	46	25
(3)	David Spencer, Dr. To Cash paid him on account	50	
(1)	A. C. Knox, Cr. By Cash on account	10	
(6)	G. N. Hudson, Cr. By 10 bbls, Mess Pork, @ \$15.00.	150	

TO HIM THAT HATH SHALL BE GIVEN.

DAY BOOK.

			Name and Address of the Owner, where
(3)	July 6. David Spencer, Dr. To Cash paid on account	20	
(7)	A. N Peters, Dr. To 5 bbls. Mess Pork, @ \$18.00,	30	
(9)	H. C. Stockbridge, Dr. To 10 lbs. Oolong Tea. @ 80c, 10 bush. Apples, @ 75c, 11	15	50
(5)	G. W. Williams, Cr. By Cash in full of account	46	25
(9)	Chas. E. Henker, Dr. To 5 bbls. Mess Pork, @ \$17.00,	85	
(9)	By Cash on above	50	
(3)	David Spencer, Dr. To Cash paid on account	20	
(7)	A. N. Peters, Dr. To 20 bush. Potatoes, @ \$1.20,	24	
(8)	H. C. Stockbridge, Cr. By Cash on account 11	20	
(4)	D. N. Brown, Dr. To 10 bush. Apples, @ 70c,	7	
(2)	Frank Fisher, Dr. To 5 bush. Potatoes, @ \$1.20,	6	
(7)	A. N. Peters, Cr. By Cash on account	100	
(4)	D. N. Brown, Cr. By Cash on account	25	
(6)	G. N. Hudson, Dr. To Cash in full of account	150	
(4)	D. N. Brown, Cr. By Cash on account	5	

CASH BOOK.

		Recei	ved.	Pai	d.
Fealty	Amount on hand Received on account from Frank Fisher Paid for drayage on Mase. Received on account from A. C. Knox Paid for Postage Stamps Paid David Spencer on account Received of A. C. Knox on account Paid David Spencer on account Paid David Spencer on account Paid for help around the store Received from Chas. E. Henker on account Paid David Spencer on account Received from H. C. Stockbridge on account Received from D. N. Brown on account Received from D. N. Brown on account Paid G. N. Hudson in full of account Received of D. N. Brown on account	1000 10 30 10 46 50 10 100 25 5	25	5 10 50 20 12 20 159 1019 1286	25

LEDGER.

	Dr.		<i>I.</i> A	1. (C. K	กอะ	v. ·	Cr.	
July	3	To 5 bbls. Flour "Mase.	25 41 66	25	July	3 5 15	By Cash "Balance	30 10 26 66	25

2. Frank Fisher.

July	211	To Mdse. "5 bu.Potatoes	28	July	2 15	By Cash " Balance	10 13 23	
188						Walter the state of the state o		

Dr.	3. David Spencer.	Cr.
Fuly 5 6 6 9 9 15	To Cash 50 20 20 35 Balance 125 — — — — — — — — — — — — — — — — — — —	125
	4. D. N. Brown.	y Company and Comp
July 3 11 64 15	To Mdse. 11 10 bu. Apples 22 50 July 12 By Cash 13 Balance 30 00 14 13 By Cash 15 15 15 15 15 15 15 1	30
	5. G. W. Williams.	
July 5	To Mase. 46 25 July 8 By Cash	46 25
,	6. G. N. Hudson.	COLUMN COLUMN
July 13	To Cash 150 July 6 By 10 bbls. [Mess Pork	150
Dr.	7. A. N. Peters.	Cr.
Frily 8	To 5 bbls. Mess [Pork 90 24 114 1	100 14 114

8. H. C. Stockbridge.

July	8	To Mêse.	15	50	July	10 15	By Cash ** Balance	10 5 15	50
				A Challenger					

9. Chas. E. Henker.

July	9	To 5 bbls. Mess Perk	85	July	9 15	By Cash Balance	50 35	
			85		=		85	

STATEMENT.

Resources or Property.				
1. From Ledger Accounts-Balances due from persons:-				
A. C. Knox Frank Fisher	26 13	25		
A. N. Peters H. C. Stockbridge Chas. E. Henber	14 5 35	50		
2. From Cash Book:—Balance of Cash on hand	1019	25		
8. Inventory:-Merchandise on hand	625		4000	
Liabilities or Debts.			1738	
From Ledger Accounts—Balances due other parties:— David Spencer D. N. Brown	85	50		
Worth at close			35	50
Investment		~	1702 1500	50
Net Gain			202	50
S. C. C. Company of the second				

HOW TO KEEP FARM ACCOUNTS.

Rules for Keeping Accounts.

The following are suggested as simple forms for keeping accounts for the use of those whose business or taste does not require a more elaborate form of bookkeeping:

Always charge or "debit" a person for what he may get, and "credit" him for what you receive from him. The word "To," prefixed to an entry, indicates a debit, and the word "By," a credit.

The books necessary are two, called a Day Book and Ledger. In the Day Book should be entered, in diary form, every transaction as it occurs, using as simple and concise wording as possible to express all the facts.

Accounts may be opened with "Cash," "Stock," "Merchandise," "Bills Payable," "Bills Receivable," "Interest," "Profit and Loss," "Expense," etc.; and the farmer may open accounts with each field of his farm, as "Field No. 1," "Field No. 2," "Orchard," "Meadow," etc., charging each field with the amount of labor and material expended upon it, and crediting it with its products. He may also keep an account with his cows, pigs, fowls, etc., and thus at any time tell at a glance the profits or losses of each department of his business.

Cash Book.

Cash Rec'd. Cash Paid.

1897 May	2 5 6 10 12 15 19 23 27 1 2 10	Received for 500 bush. Corn. Paid Hired Man Paid Interest. Received for 22 Hogs: Paid for Groceries. Received for 20 doz. Eggs. Received for One Cow Paid for Coal Paid for Lumber. Received for Butter Received for Butter Received One Load of Hay Balance Cash on Hand.	\$200 208 2 20 9 6	90 90 00 25 30	\$ 20 150 11 16 102 145	90 90 00 65
		Note-To find the balance in cash add up the amount received and subtract from that the amount paid out and the result will always equal the cash on hand.	\$446	45	\$446	45

WATHER TIME ISSUES NO LETTERS OF CREDIT.

		Corn Field.	I)R.	Св	
1897 April	4 8 1 8 14 28 22 24 8 17 25 31	To 7 days' Plowing @ \$2.50. " 2 days' Furrowing @ \$2.40. " 2 bushel seed @ \$2.50. " 3 days' Planting @ \$1.50. " 3 days' Hoeing @ \$1.50. " 12 days' Hoeing @ \$1.25. " 9 days' Cuttivating @ \$2.00. " 12 days' Hoeing @ \$1.25. " 9 days' Cutting Corn @ \$1.25. By 12 bushels Corn @ \$1.25. By 12 bushels Corn @ \$2.00. " 14 bushels Corn @ \$1.25. By 20 bushels Corn @ \$1.25. " 5 days' work with team @ \$2.50. By 20 bushels Corn @ \$40c. " 12 bushels Corn @ \$40c. " 12 bushels Corn @ \$1.25. " Cash for 300 bushels Corn @ 75c. " Cash for \$00 bushels Corn @ 40c. " 1nterest Total Gain.	\$17 4 5 12 8 16 15 11 50 12 15 189	50 80 75 25 50 20 88	\$ 81 84 225 60	08
			\$207	00]	\$327	20

ramily Expense Account.	DE		Св	io .
1897	4 8	50 75 75 75 50	65	28

Convenient Form of Entries in Ledger for Farmers. OHARLES WADSWORTH.

1897 San. 5 30 March 4 20 April 7 May 8 June 10 July 1	Te 1 Ton Hay. " 2 Bbls. Potatoes, at \$1.75. By Cash on account. To 1 Cord Wood By 1 Plow. To 10 Bush. Oats, at 40 cents. " 3 Bbls. Potatoes, at \$2. By balance charged below.	4 25 4 00 6 00	10 00 17 50
Icly 1	To balance	\$31 75 \$4 25	\$31 75

INTEREST.

LEGAL HINTS AND HELPS CONCERNING INTEREST.

- 1. Interest is money paid for the use of money. AD civilized countries regulate the rate of interest by law. That which the law allows is called legal interest.
- 2. Usury is charging or taking more than the legal rate. Efforts to change the statutes so that parties may make any basegain for the use of money which suits them have succeeded in a number of States. Usurers resort to many devices to conceal their usury.
- 3. Time.—It is the general practice of the courts in this country to award interest computed at the legal rate, from the time when payment should have been made. Interest upon independent dates from the time the judgment is rendered.
- 4. A Creditor may charge interest on an account from the expiration of the time of credit. When no time is specified, interest may be charged from the time payment is demanded, or when the statement of account has been rendered.
- 5. A Debt for board and lodging, where there was no fixed price or time of payment fixed, will not draw interest until it is reduced to judgment, or until its amount is otherwise determined. Interest may not be charged upon the items of a running account until the balance is struck, and the statement rendered.
- 6. Compound Interest cannot be collected by law. When interest has already accrued and become payable, an agreement that it shall be added to the principal thus formed will generally be deemed legal. When such interest would not be recoverable upon an ordinary contract in which its payment was agreed upon, yet if it has actually been paid, it cannot be recovered.
- 7. Guardians, Executors, Administrators and Trustees of every kind may be charged interest upon all trust funds at their hands after their failure to invest them within a reasonable time.
- 8. Custom.—Where it is a uniform practice of the seller to charge interest and this is known to the customer or purchaser at the time when the transaction takes place, interest the charged on book accounts.

- 9. Partners.—If a partner withdraws money from the partnership funds belonging to the firm, for private use or for the purpose of speculation, he will be liable for interest on the money so withdrawn.
- 10. Insurance Policy.—When loss occurs under a policy of insurance, it bears interest from the time it is due according to the terms of the policy.
- than legal interest. The interest is always deducted from the face of the note. Take an extreme case: a bank discounting a note for \$500 at six per cent., for fifteen years, would deduct the interest, \$450, and the borrower would receive \$50, and at the end of fifteen years he would pay the bank \$500. This would practically be paying \$450 for the use of \$50 for fifteen years. The legal interest of \$50 for the same time would be but \$45. But this method is established by usage and sanctioned by law.

THE CELEBRATED LIGHTNING METHOD FOR CALCULATING INTEREST.

Where the Time Is for Days Only

Rule.—To find the interest on any given sum for any number of days, multiply the princes of by the number of days, then point off two places and divide as follows:

At 5 per cent. divide by 72 At 6 per cent. divide by 60

At 7 per cent. divide by 52

At 8 per cent. divide by 45

At 10 per cent. divide by 36

At 12 per cent, divide by 30

Example: What is the interest on \$900.00 for 8 days at ser cent.?

Solution: $900 \times 8 \div 60 = 1.20 interest.

When the Time Consists of Years, Months, and Days.

- 1. Rule,—Reduce years to months, adding the number of months, then place % of the number of days to the right of the months with a decimal point between.
- 2. Then remove the decimal point two places to the left in the principal, and divide by 2, and the result will equal the interest for one month at 6 per cent.
- 3. Multiply the interest for one month by the number of months, and the product is the interest at 6 per cent. for the given time.

OR POLISH UP THE DARK ONE.

Then add $\frac{1}{3}$ of itself for 7 per cent. Then add $\frac{1}{3}$ of itself for 8 per cent Then add $\frac{1}{3}$ of itself for 9 per cent. Then add $\frac{1}{3}$ of itself for 10 per cent. Subtract $\frac{1}{3}$ of itself for 5 per cent. Subtract $\frac{1}{3}$ of itself for 4 per cent.

Example: Find the interest on \$150, at 9 per cent. for 1 year, 4 months, and 12 days:

Solution: $\$1.50 \div 2 = .75$ interest for 1 month, 1 year, 4 months, and 12 days — 16.4 months.

 $.75 \times 13.4 = 12.30 , interest at 6 per cent. 12.30 + 6.15 = \$18.45, interest at 9 per cent.

N. B.-The \$6.15 is one-half of \$12.30.

HOW MONEY GROWS AT INTEREST.

If one dollar be invested and the interest added to the principal annually, at the rates named, we shall have the following result as the accumulation of one hundred years.

One dollar, 100 years at 1 per cent, \$23/4; 2 per cent	\$714
One dollar, 100 years at 3 per cent, \$191/4; 4 per cent	50 3/2
One dollar, 100 years at 5 per cent	131 1/2
One dollar, 100 years at 6 per cent	340
One dollar, 100 years at 7 per cent	868
One dollar, 100 years at 8 per cent	2,203
One dollar, 100 years at 9 per cent	5,513
One dollar, 100 years at 10 per cent	13,809
One dollar, 100 years at 12 per cent	84,675
One dollar, 100 years at 15 per cent	1,174,405
One dollar, 100 years at 18 per cent	15,145,000
One dollar, 100 years at 24 per cent	2,551,799,404

BANKERS' METHOD OF CALCULATING INTEREST.

In banking nearly all the business is transacted on the basis of 10, 60, and 90 days.

Rule.—To find the interest on any amount at 60 days, remove the decimal point two places to the left, and you have the interest at 6 per cent.

Increase or diminish according as the time is increased or diminished.

For 90 days add 1/2 of itself; for 30 days divide by 0, for 15 cays divide by 4; for 120 days multiply by 2.

314 A THOUGHT AT THE START SAVES A GROAN AT THE END.

Example: What is the interest on \$240 for 90 days at 6 per 2.40 interest for 60 days.

1.20 interest for ½ of 60 days, or 30 days.

3.60 interest for 90 days.

BANKERS' TIME TABLE.

Showing the number of days from any day in one month to the same day in any other.

From To	Jan.	Feb.	March.	April.	May.	June.	July.	Ang.	Sep.	Oct.	Nov.	Dec
Jan Feb March April May June July Aug Bep Oct Nov	365 334 306 275 245 214 184 158 122 92 61 31	31 365 337 306 276 245 215 184 153 123 92 62	59 28 365 334 273 243 212 181 151 120 90	90 59 31 365 335 304 274 243 212 182 151 121	120 89 61 30 365 334 304 273 242 212 181 151	151 120 92 61 365 395 304 273 243 212 182	181 150 122 91 61 30 365 334 303 273 242 212	212 181 153 122 92 61 31 365 334 273 243	243 212 184 153 123 92 62 31 365 335 304 274	61 30 365 334	304 273 245 214 184 153 123 92 61 31 365 335	334 308 275 244 214 183 152 122 91 61 30 865

Note.—Find in the left-hand column the month from any day of which you wish to compute the number of days to the same day in any other month; 'hen follow the line along until under the desired month, and you have the sequired number of days.

Example: How many days from May 17 to Nov. 17? 184 days. Ans.

TIME AT WHICH MONEY DOUBLES AT INTEREST.

MATE PER CENT.	SIMPLE INTEREST.	COMPOUND INTEREST
2	50 years.	35 years 1 day.
21/2	40 years.	28 years 26 days.
8	33 years 4 months.	23 years 164 days.
8½	28 years 208 days.	20 years 54 days.
4	25 years.	17 years 246 days.
4½	22 years 81 days.	15 years 273 days.
5	20 years.	15 years 75 days.
6	16 years 8 months.	12 years 327 days.
7	14 years 104 days.	10 years 89 days.
8	12½ years.	9 years 2 days.
	11 years 40 days.	8 years 16 days.
10	10 years.	7 years 100 days.

HOW TO USE THE INTEREST TABLES.

- The interest on any sum of money, and for any length of time, may be obtained, by adding to or doubling any certain sum, or length of time in the tables, viz.: If the interest on a certain sum of money at 8 per cent. for a given time should be \$28, one-half of \$28 or \$14 would equal the interest at 4 per cent., etc.
- 2. If the interest at 6 per cent. should amount to \$26 on a certain sum of money for a given time, twice that amount or \$52 would equal the interest at 12 per cent., and half that amount would equal the interest at 3 per cent.
- 3. The tables are computed on the principle of 360 days in a year, the rule adopted by bankers and merchants throughout the entire country.
- 4. When the fraction of interest is a half cent or more, a whole cent is taken, but when less than a half cent, nothing is charged.

EXAMPLE: Find the interest on 1,108 for one year, three months and twenty-nine days, at 7%.

Bo 61					COU	. 00	r cent,,	A10.00
	100,	6.6	1	4.6	8.6	7	45	7.00
60 61	8,	4.6	1	6.8	6.6	7	4.6	56
96 41	1,000,	6.6	3	mos.,	6.6	7	84	17.50
69 61	100,	6.6	3	4.6	6.6	7	44	1.75
86 94	8,	6.6	3	5.6	6.6	7	**	14
86 61	1,000,	6.6	29	days	4.6	7	4.6	5.64
86 60	100,	6.6	29	66	6.6	7	44	56
66 65	8,	8.6	29	4.6	6.6	7	66	05

EXAMPLE: Find the interest on \$1,024 for 1 year, 7 months, 19 days, as 4½ per cent.

From table interes	st on	\$1,000	, for	1	year,	at	9	per cent.,	\$ 90.00
44	6.6	20,	8.6	6.5	66	66	9	44	1.80
66	6.6	4,	66	6 6	6.6	4.6	9	66	.36
Interes	t on	\$1.000,	for	7	mos.,	at	9	per cent.,	52.50
4.6	6.6				6-6				1.05
86	6.6	4,	66	66	6.6	8.6	9	66	.21
Interest	t on	\$1,000,	for	18	days,	at	9	per cent,,	4.75
44	6.6				4.6			66	.10
84	6.6	4,	6.6	44	66	66	9	6.6	.02
Interest	t on	\$1.000, 20, 4, \$1,000, 20,	for " for	7	mos.,	at "at	9999	per cent.,	52.50 1.05 .21 4.75

Interest at 9 per cent......\$150.79

Interest at 4% per cent.=\$75.40 Ans.

Ę

INTEREST AT FIVE PER CENT.

TIME. \$1 \$2 \$3 \$4 \$5 \$6 \$7 \$8 \$9 \$10 \$100 \$1000 1 Day	.00 .00 .00 \$.00 \$.01 \$.00 .00 .00 .00 .03 .00 .00 .00 .00 .04 .00 .00 .01 .01 .06 .01 .01 .01 .01 .08 .01 .01 .01 .01 .10 .01 .01 .01 .01 .11 .01 .01 .01 .01 .11 .01 .01 .01 .01 .13 .1 .01 .01 .01 .01 .14 .1 .01 .01 .01 .02 .15 .1 .01 .01 .01 .02 .15 .1 .01 .01 .01 .02 .17 .1 .01 .01 .02 .02 .18 .1 .01 .01 .02 .02 .19 .1	00 .00 .00 .00 .00 .00 .01 .01 .01 .01 .	.00. .00. .00. .00. .01. .01. .01. .01.	00. 00. 00. 00. 10. 10. 10. 10. 10.	.0000000000000001010101.	.00 .00 .00 .00 .00 .00 .00	.00	.00	.00	.00	I Day. 2 " 3 " 4 " 5 "
2 "	.00 .00 .00 .00 .03 .00 .03 .00 .00 .04 .00 .00 .04 .00 .07 .01 .01 .07 .01 .01 .01 .00 .01 .01 .01 .01 .01 .01	00. 00 00. 00 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	10. 10. 10. 10. 10. 10. 10. 10.	00. 00. 10. 10. 10. 10. 10.	.00 .00 .00 .00 .01 .01	00. 00. 00. 00. 00. 10.	.00	.00	.00	.00.	2 " 3 " 4 " 5 " 6 "
2 "	.00 .00 .00 .00 .03 .00 .00 .00 .00 .00	00. 00 00. 00 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	10. 10. 10. 10. 10. 10. 10. 10.	00. 00. 10. 10. 10. 10. 10.	.00 .00 .00 .00 .01 .01	00. 00. 00. 00. 00. 10.	.00	.00	.00	.00.	3 " 4 " 5 " 6 "
3 "	.00 .00 .00 .00 .04 .04 .00 .00 .01 .01 .01 .07 .07 .01 .01 .01 .08 .01 .01 .01 .00 .01 .01 .01 .01 .01 .01	00. 00 10. 10. 10. 10. 10. 10. 10. 10. 1	10. 10. 10. 10. 10. 10. 10.	10. 10. 10. 10. 10. 10. 10.	.00. .00. .01. .01. .01.	.00 .00 .00 .00 .00 .10	.00	.00	.00.00.00.00.00	.00.	5 "
4 "	.01 .01 .01 .01 .07 .08 .01 .01 .01 .08 .01 .01 .01 .00 .10 .10 .10 .10 .10 .10	10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	10. 10. 10. 10. 10. 10.	10. 10. 10. 10. 10.	.00. IO. IO. IO. IO.	00. 00. 00. 10. 10.	.00	.00.	.00.	.00.	4 " 5 "
5 "	.01 .01 .01 .01 .08 .01 .00 .00 .01 .01 .01 .01 .10 .10 .10	10. 10 10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	10. 10. 10. 10. 10.	10. 10. 10. 10.	IO. IO. IO. IO.	.00. .00. IO.	.00.	.00.	.00	.00	5 "
7 "	.01 .01 .01 .01 .10 .10 .10 .10 .11 .11	10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	.0I .0I .0I .0I	10. 10. 10. 10.	IO. IO. IO.	.00. IO.	.00	.00	.00	.00	
8 "	OI OI OI OI OI II I OI OI OI OI OI OI OI	10. 10 10. 10 10. 10 10. 10 10. 10 10. 10	.0I .0I .0I	10. 10. 10.	IO. IO.	.0I	.00	.00			- CS
9 "	. OI . OI . OI . OI . I3 I . OI . OI . O	10. 10 10. 10 10. 10 10. 10	10. 10.	10. 10.	OI.	.OI			.00		7 "
10 "	.01 .01 .01 .01 .14 I .01 .01 .01 .02 .15 I .01 .01 .01 .02 .17 I .01 .01 .02 .02 .18 I .01 .02 .02 .02 .19 I	10. 10 10. 10 10. 10	.01	10.	.OI		OI			.00	
11	.01 .01 .01 .02 .15 I .01 .01 .01 .02 .17 I .01 .01 .02 .02 .18 I .01 .02 .02 .02 .19 I	10. 10 10. 10 20. 10	.01	.oI		OT		.00	.00	.00	Q 55
12 "	.01 .01 .01 .02 .17 I .01 .01 .02 .02 .18 I .01 .02 .02 .02 .19 I	10. IO			OT	.01	.01	.00	.00	.00	
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13 "	.01 .02 .02 .19 I			.01		.OI	.OI	.OI	.00	.00	12 "
14		02 02	.OI	.OI	.OI	.OI					13 "
16 4 .00 .00 .01 .01 .01 .02 .02 .02 .02 .22 2.2		0-1.0-	1.02	.OI	.OI	.OI	10.	.OI	.00	.00	
16 .00 .00 .01 .01 .01 .02 .02 .02 .02 .22 2.2	.01 .02 .02 .02 .21 2	02 .02	.02	.OI	.01	.OI	.OI	.OI	.00	.00	17
1 M	.02 .02 .02 .02 .22 2	02 .02	.02	.02	.OI	.OI	IO.	.OI	.00	.00	16 et
17 (00 .00 .01 .01 .01 .02 .02 .02 .02 .24 2.3	.02 .02 .02 .24 2	02 .02	.02	.02	.OI	OI.	.01	.01	.00	.00	17 00
18 .00 .01 .01 .01 .02 .02 .02 .02 .03 .25 2.5	.02 .02 .02 .03 .25 2	02 .02	.02	.02	.02	.OI	.OI	.OI	.OI	.00	18 **
19 (.00 .01 .01 .01 .02 .02 .02 .03 .26 2.6	.02 .02 .02 .03 .26 2	02 .02	.02	.02	.02	.OI	.OI	.OI	IO.	.00	10 65
20 4 .00 .01 .01 .01 .02 .02 .03 .03 .28 2.7	.02 .02 .03 .03 .28 2	02 .03	.02	.02	.02	.OI	.01	.OI	.OI	.00	20 44
21 " .00 .01 .01 .01 .02 .02 .03 .03 .29 2.9	.02 .02 .03 .03 .29 2	02 .03	.02	.02	.02	.OI	.01	IC.	.01	.00	21 "
22 " .00 .01 .01 .01 .02 .02 .02 .03 .03 .31 3.0		02 .03	.02	.02	.02	.OI	.01	.OI	.OI	.00	22 "
23 4		.03 .03	.03	.02				.01	10.	.00	23 "
24 " .00 .01 .01 .02 .02 .02 .03 .03 .03 .33 3.3	.02 .03 .03 .03 .33 3	.03 .03	1.03	.02	.02	.02	.OI	IO.	IO.	.00	
25 "	.02 .03 .03 .35 3	03 .03	1.03	.02	.02	.02	.OI		.01	.00	-7
26 " .00 .01 .01 .02 .02 .03 .03 .03 .04 .36 3.6	.03 .03 .04 .36 3	.03 .03	1.03	.03	.02	.02	IO.	.OI	.OI	.00	26 "
27 " [.00].01].01].02].02].03].03].03].04] .38] 3.7	.03 .03 .04 .38 3								IO.	.00	-1
28 " .00 .01 .01 .02 .02 .02 .03 .03 .04 .04 .39 .3.8	.03 .03 .04 .04 .39 3										28 66
29 "	.03 .03 .04 .04 .40 4	.03 .04	1.03	1.03	1.02	.02	.02	.01	IC.	oc	29 "
I Month. 1.00 .01 .01 .02 .02 .03 .03 .03 .04 .04 .42 4.1									10.	.00	I Month.
2 " [.01].02].03[.04].05[.06].07[.08].08 .83 8.3	.061.07.08 .08 .83 8	07 .08	1.07	1.06	1.05	1.01	1.03		1.02	.oI	žil .
	.co .10 .11 .13 1.25 12	II. OI.	1.10	CQ	.08	1.06	1.05				3 "
4 " [.02].03].05].07].08.10[.12].13[.15].17 [1.67] 16.6	.12 .13 .15 .17 1.67 16	13.15	1.13	1.12	. IO	.08	1.07	1.05	1.03	1.02	4 "
5 " 1.021.041.061.081.10.131.151.171.191.211 2.081 20.8		. 17 . 19					1.08	1.00	1.01	.02	5 "
6 " .03 .05 .08 .10 .13 .15 .18 .20 .23 .25 2.50 25.0	.18 .20 .23 .25 2.50 25	20 .23	1.20	1.18	. 15	.13	. IO				6 "
7 " .03 .06 .09 .12 .15 .18 .20 .23 .26 .29 2.92 29.1		.23 .26	.23	1.20	. 18	1.15	1.12				7 68
8 " .03.07 .10 .13 17 00 23 07 30 33 3 33 33											8 "
8 " .04 .08 .11 .15 .19 .23 .26 .30 .34 .38 3.75 37.5					1,23	' IO	. 15	(. II			8 "
10 " .04.08.13.17.21.25.20.33.38 .42 4.17 11.6			.33	,20	1.25						
11 1 105.001.14.18.23.28.32.37.41 .46 4 58, 45.8					1.28						II of
2 Year. 1.05. 10'. 151. 20'. 25'. 30'. 331. 40'. 451'. 50' 5. 00' 50'. 0											w Vere

INTEREST AT SIX PER CENT.

			,									
T WE.	· \$1	\$2	\$3	\$4	\$5	56	\$7	\$8	\$9	SIO	\$100	\$1000
r Day.	1.00	.00	.oo		.00	.00	.00	.00	.00	\$.00	\$.02	\$.17
2 "				.00							.03	•33
3 "				.00						.01	.05	.50
4 "				.00		.00		.OI	.01	.OI	.07	.67
	.00			.00				.OI	.OI	10.	.08	.83
5 "	1			.00		.OI		.OI		IO.	,10	1.00
7 "				.00		.OI		OI;		.QI	.12	1.17
7 "				.OI			.OI			IO.	.13	1.33
9 "				.OI						.02	.15	I.50
10 "	.00	.00			.oI			OI.		.02	.17	1.67
11 "	.00	4		.01			.01			.02	.18	1.83
12 "		.00			.OI		.OI		.02	.02	.20	2.00
13 "		.00			.OI	.OI		.02		.02	.22	2.17
14 "	1	- 1		.OI			.02		.02	.02	.23	2.33
15 "			- 1	.OI			.02	1		.03	.25	2.50
16 "			.OI		.OI	.02			.02	.03	.27	2.67
17 "	.00			.OI						.03	.28	2.83
18 "	3			.01						.03	.30	3.00
IQ "	1 1						.02			.03	.32	3.17
20 "			- 1				.02		.03	.03	.33	3.33
21 "		10.		IO.						.04	.35	3.50
22 "	co.			.01			.03			.C4	.37	3.67
23 "	.00			.02						.04	.38	3.83
24 "	.oo			.02						.04	.40	4.00
25 "	.00				.02		.03			.04	.42	4.17
26 "	.00			.02			.03		.04	.04	.43	4.33
27 "	.001			.02						.05	.45	4.50
28 "	.00			.02				.01		.05	.47.	4.67
29 "								.04		.05	.481	4.83
I Month.	IO.			.02			.04			.05	.50	5.00
2 "	.OI	.02	.03!	.04	.05		.07		og!	.10	I.Co	10.00
3 "	.02	.03	.03	.00	. cž			.12	.14	.15	1.50	15.00
4 "	.02							.16	.31.	.20	2.00	20.00
	.03							.20		.25	2.50	25.00
5 "				. 12		.31.		.24		.30	3.00	30.00
	.01	07	III	. 14	. 18		. 25	.28	. 32	.35	3.50	35.00
7 "			12	. 16	20	. 24		. 32,		.40	4.00	40.00
9 "				.18					41	.45	4.50	45.00
10 "	'			. 20				.40		.50	5.00	50.00
H '				,221			. 39			.55	5.50	55.00
I lear	.06.		TS	21	20	35	12.		54	.60	6.00	60.00
A 20"					~	2		-		~		

INTEREST AT SEVEN PER CENT.

TIME.	\$1	\$3	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
	<u> </u>			i .								<i>d</i> = -
1 Day.	.00	.00			.00		.00			\$.00		. ,
2	.00	.00	.೦ು			.00				.00	.04	.39
3	.00		.00	.00			.00			.01	.06 .08	.58
4	.00	.00			.00		.OI	10.	10.	.01	.10	.78
5 "	.00	.00			.00		.OI	10.	10.		.10	.97
~	.00		.00	.00	.01	10.	.OI	10.		.01		1.17
7 "	.00			.01	.01	. OI	10.	.01	10.	.02	.14	1.56
9 "	.00	.00	.00	10.	.01	.01	.01	.01	.02	.02	.i8	1.75
10 "	.00	.00	.01	.01	.01	.01	.01	.02		.02	.10	I.94
II "	.00	.00	.01	10.	.01	.OI	.01	.02		.02	.23	2.14
12 "	.00.	.00	10.	10.	.01	.01	.02	.03	.02	.02	.23	2.33
13 16	.00	.00	.01	.01	.01	.02	.02	.02	02	.03	.25	2.53
14 "	.00	.01	.OI	.OI	.oI	.02	.02		.02	.03	.27	2.72
	.00	10.	.OI	.01	.oI	.02	.02	.02	.03	.03	.29	2.92
15 "	.00	.01	IO,	.OI	.02	.02	.02	.02	.03	.03	.31	3.11
17 "	.00		10.	.01	.03	.02	.02	.03	.03	.03	•33	3.31
18 44	.00		.OI	.oı	.02	. 02	.02	.03	.03	.04	•35	3.50
Iq "	,00		.01	.01	.03	.02	.03	.03	.03	.04	•37	3.69
20 "	.00	.01	.oı	.02	.03	.02	.05		.0.	.04	•39	3.89
21 '	.00	.01	.01	.02	.02	. 02		1.03	.0.	.04	.41	4.08
22 "	co.	.01	.01	.02	.00	.03		.03	.04	.04	.43	4.28
23 "	.00	.01	10,	.02	.00	.03			.04	.04	-45	4.47
24 "	.00	.01	.01	.02	.02	.03		.04	.04	.05	.47	4.67
25 **	co.	.01	.01	.02	.03	.03	.03	.04	.04	.05	.49	4.86
26 "	.OI	.01	.03	.02	1.03	.05	.04	1.04	1.05	.05	.51	5.06
27 **	.01	.01	.03	.02	1.03	.05	. 0.4	.04	1.05	.05	.53	5.25
28 "	.0.	.OI	.02	.02	.03	1.05	.04	.04	.cs	.05	.54	5.44
29 "	IO.	10.	.00	.02	.03	.03	.04	.05	.05	.05	.56	5.64
I Month.	.01	10.	.03		.03		.04	.05	.05	.06	.58	5.83
2 "	10.		.01		.00	.07	80.			.12	1.17	11.67
3 "		.04	.03			.II	.12	.14			1.75	17.50
C.		,.0].			.12		.16			.23	2.33	23.33
5 %	,C3	.00					.20			1		29.17
	1.01	1 "			1.13		.25	1.28		.35	3.50	
7 "	1	1.0%	.13		,20	.25	.29	100		.41	4.08	40.83
	-05		. 14			1.28	33	.37	.42		4.67	46.67
9			1.16		1.26		.37	.42				52.50
10		1.12		1.23			.41	.47				58.33
F 2	1.06		1.19	.26	.32	.39		.51	1.58			
I Year.	1.07	1.14	1.21	1.28	1.35	1.42	1.49	1.56	1.63	1.70	7.00	70.00

INTEREST AT EIGHT PER CENT.

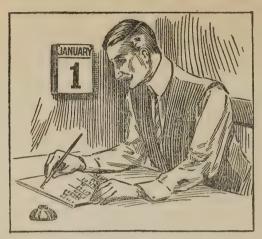
A - NA -	1			_		,						
TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
I Day.	1.00	1.00	.00	.00	.00	.00	.00	.00	00	\$.00	\$.02	d 00
2 '4'	.00	.00	.00					i	1	.00	.04	
3 "	1.00	.00	.00		.00		.00	.01	.01	.00		•44
4 "	1.00	.00	.00			.01	.01	.01	10.		.07	.67
	1.00	.00	.00		.00	.01				.01	.09	.89
5 "	.00	.00	.00	.01	.01		IO.	.OI	IO.	IO.	.11	I.II
	.00	.00	.00	1		.OI	.01	.01	.OI	.01	.13	1.33
7 " 8 "	.00	.00	10.	10.	.OI	10.	.01	.OI	.01	.02	.16	1.56
9 "	1 1			10.	.01	IO.	.OI	.01	.02	.02	.18	1.78
10 "	.00	.00	.01	.OI	·OI	.OI	.OI	.02	.02	.02	.20	2.00
II "	.00	.00	.OI	.01	.01	.OI	.02	.02	.02	.02	.22	2.22
	.00	.00			io.	.OI	,C2	.02	.02	.02	.24	2.44
14	.00	10.				.02	- 1	.02	.02	.03	.27	2.67
13)					.02		.02	.03	.03	.29	2.89
14		- 1	- 1			.02		.02	.03	.03	.31	3.11
15			- 1						.03	.03	•33	3.33
10									.03	.04	.36	3.56
1/									.03	.04	.38	3.78
10			- 1				.03	.03	.C4	.04	.40	4.00
19						.03	.03	.03	.04	.04	.42	4.22
20				- 1			03	.04	.04	.04	.44	4.44
41						03	03	.04	.04	.05	.47	4.67
44					.02	03	03.	.04	04	.05	.49	4.89
23	1	1						04 .	05	.05	-51	5.11
24		- 1				03	04 .	04	05	.05	•53	5.33
25 "						03	04 .	04 .	05	.06	.56	5.56
26 "						03	04.	05 .	05	.06	.58	5.78
27 "		OI.	02 .	02 .	03.	04 .	04.	05 .	05	.06	.60	6.00
28 "	.oI	OI.	02 .			04 .	04 .	05.	06	.06	.62	6.22
29 "						04 .	05 .	05 .	06	.06	.64	6.44
I Month.				03.					c6	.07	.67	6.67
2 "					07 .	08.	09 .	II.	12	.13	I.33	13.33
3 "	.02			08 .	IO.	12.	14.	16.	18			20.00
4 "	.03	05 .	08].	II.	13.	16.	19.	21	24			26.67
5 "	.03 .	07 .	IO.	13.	17 .	20 .	23 .	27 .	30			33.33
	.04	08.	12.	16.	20 .	24 .	28.		36			40.00
	.05	09.	14.	19.	23 .				42			46.67
	.05	III.						43	48		- ,	53.33
9 "	.06.	12.	18].:									60.00
	.07		20 .:						60			66.67
	07	15 .:	22 .:	29					66 .			73·3 3
I Year.	c8 .	16 .				481.		201	72	.80	8.00	80.00
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

INTEREST AT NINE PER CENT.

												greatwaters springer
TIME.	\$1	\$2	\$3	\$4	\$5	\$5	\$7	\$8	\$9	\$10	\$100	\$1000
I Day.	.00	.00	.00	.00	.00	00	.00	.00	.00	\$.00	\$ 02	\$.25
2 "	.00	.00			.00		.00		.00	.00	55	. 50
3 "	.00	.00	.00		.00	.00	.00	.oI	10.	.01	08	75
4 "	,00	.00		.00	.00		10.	.01	.oI	.oı	.10	I.OC
	.00	.00					.OI	.OI	OI.	.OI	.12	1.25
5 "	.00	.00	,00	.oI	.OI	.oI	.OI	.oI	.OI	.02	.15	1.56
	.00	.00		.oI	.OI	.oI	10.	.01	.02	.02	.17	1.75
7 "	.00	.00	.OI	.OI	.01	.oI	.OI	.02		.02	.20	2.00
9 "	.00	.00	.OI	.OI	·OI	.oI	.02	.02	.02	.02	.23	2.25
10 "	.00	.00	.OI	.OI	.OI	.02	.02	.02	.02	.02	.25	2.50
11 "	.00	.00		.OI	.OI	.02	.02	.02	.02	.03	.27	2.75
12 "	.00	.00	IO.	.OI	.02	.02	.02	.02	.03	.03	.30	3.00
13 "	.00	.01	.OI	IO.	.02	.02	.02	.03	.03	.03	. ,2	3.25
14 "	.00	.01	.OI	.oI	.02		.02	.03	.03	.03	•35	3.50
15 "	.00	OI.	10.	.02	.02		.03	.03	.03	.04	.38	3.75
16 "	.00	.OI	10.	.02	.02		.03	.03	.04	.04	.40	4.00
17 "	.00	10.	.OI	.02	.02	.03	.03	.03	.04	.04	.42	4.25
18 "	.00	OI.	10.	.02	.02	.03		.04	.04	.05	.45	4.50
19 "	,00	.01	.OI	.02	.02	.03	.03	.04	.04	.05	.47	
20 ".	.00	10.	10.	.02	.02	.03	.03	.04	.05	.05	.50	4-75
21 "	.00	.01	.OI	.02	.03		.04		.05	.05		5.00
22 "	.00	.01	10	.02	.03		.04	.04	.05	.05	• 5 3	5.50
23 "	.00	.01	.02	.02		.03	.04		.05	.06	.57	5 75
24 "	10.	.01	.02	.02		.03	.04		.05	.06	.60	6 00
25 "	10.	.OI	.02	.02	.C.3		.04	.05	.06	.06	.62	6.25
26 "	.01	10.	.02	.03	.03	.04	.05	.05	.06	.06	.65	6.50
27 "	.OI	.OI	.02	.03	.03	.04	.05	.05	.06	.07	.68	6.75
28 "	10.	.OI	.02	.03	.03	.04	.05	.06		.07	.70	7.00
29 "	.01	.01	.02	.03	.03	.04	.05	.06		.07	.72	7.25
I Month.	.OI	.02	.02	.03		.05	.05	.c6	.07	.cs	.75	, -
2 "	.02	.03	.05	.05	.08	.09	.11	.12	.14	.15	1.50	7.50
3 "	.02	.03	.07	.09		1.14	1.16	.18	20	.23	2.25	
4 "	.03	.06	.00	.12	.15	.18	.21	.24		.30	3.00	22.50
	.04	.08	.II	.15	.19		.26	.30	.34	.38		
5 "	.05	.00	.11	.18	.23	.27				.45	3.75	37.50
	.05	.11	.16	.21	.26	.32	. 32	.36	.47	.53	4.50	45.00
7 "	.06	.12	.13	.24		.36	42	1.48	.54	.60	5.25 6.00	52.50
9 "	1.06	.14	.20	.27	.33	.41	.47	.54	60	.68	6.75	
30 "	1.08	.15	.23	.30		.45		.60		6		67.50
AI "	.08	1.17	.21				-53	.66			7.50	75.00
X Year.	.00					.50	1.57		1 6 4	,		
& ECHI.	1000	·	1.27	1737	1.45	1.53	1.63	.72	1.81	1.90	9.00	90.00

INTEREST AT TEN PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
n Day.	.00	.00	.00	.00	.00	.00	.00	.00	00	\$.00	\$.03	\$.28
2 "	1.00	.00	.00		.00	1	.00	.00	.01	.01	.06	
3 "	.00	.00	.00			.01	.oı	.01	10.	.01	.08	.56
4 "	.00	1	.00			.oı	.01	.OI	.01	10.	.11	1.11
E 66	.00	.00			.OI	.01	.01	.OI	.01	.01	.14	
5 "	.00	.00	.oı	.01	10.	.01	10.	.01	.02	.02	.17	I.39 I.67
7 "	1.00	.00	.OI	.OI	.01	.01	.oI	.02	.02	.02	.10	
7 " 8 "	.00	.00	.01	10.	.01	.OI	.02	.G2	.02	.02	.22	I.94 2.22
9 "	.00	.OI	.oI	.OI	.01	.02	.02	.02	.02	.03	.25	2.50
10 4	.00	.OI	.01	.01	.oı	.02	.02	.02	.03	.03	.28	2.78
11 "	.00	.01	10.	.01	.02	.02	.02	.02	.03	.03	.31	3.06
12 4	.00	.OI	.OI	.oi	.02	.02	.02	.03	.03	.03	•33	3.33
13 46	.00	.01	10.	IO.	.02	.02	.03	.03	.03	.04	.36	3.61
14 **	.00	.01	.oI	.02	.02	.02	.03	.03	.04	.04	•39	3.8c
15 4	.00	.01	.OI	.02	.02	.03	.03	.03	.04	.04	.42	4.17
19 at	.00	.01	.01	.02		.03	.03	.04	.04	.04	.44	4.44
17 4	.00	.01	.01	.02	.02	.03	.03	.04	.04	.05	.47	4.72
18 46	10.	.01	.02	.02		.03	.04	.04	.05	.05	.50	5.00
19 "	10.	.01	.02	.02	.03	.03	.04	.04	.05	.05	.53	5.28
20 4	10.	.01	.02	.02		.03	.04	.04	.05	.06	.56	5.56
21 4	10.	.01	.02	.02	.03	.04	.04	.05	.05	.06	.58	5.83
22 66	10.	10.	.02	.02	.03	.04	.04	.05	.06	.06	.61	6.11
23 **	IO.	.01	.02	.03	.03	.04	.04	.05	.06	.06	.64	6.39
24 **	10.		.02	.03	.03	.04	.05		.06	.07	.67	6.67
25 **	IO.	- 1				. 04	.05		.c6	.07	.60	6.94
26 ss	IO.	.CI			.04			.06	.07	.07	.72	7.22
2/	.OI	- (~ [.05		.07	.08	-75	7.50
28 **		- 2							.07	.08	.78	7.78
29	8					01		4	.07	.08	.81	3.06
I Month.									.08	.08	.83	8.33
26									.15	.17	1.67	16.67
3 4				IO.		-			.23	.25	2.50	25.00
									.30	.33	3.33	33.33
§ "									38	.42	4.17	41.67
			<u> ۲</u> ۱						45	.50	5.00	50.00
3 "									53	. 58	5.83	58.33
				27 .		40	47		60	.67	6.67	66.67
9				30.		45			68	.75	7.50	75.00
:9					42 .	50 .		67 .	75	.83	8.33	3.3 3
1.4	.09				46.		64 .	73 .	83	.92	9.17	91.67
I Year.	. IOI.	20 .	301.	401.	501.	001.	70l.	801.	90 1	.001	0.00	00.00



POSSIBILITIES OF COMPOUND INTEREST.

An Idaho correspondent sends the New York Tribune a photograph of an old Idaho mortgage, which shows in a startling way the amazing possibilities of compound interest. The mortgage was executed in 1861, on a piece of land in Boise City, "to secure the sum of \$340, if paid in legal tender, with interest, at the rate of 10 per cent. per month. But if the said note shall not be paid.....then the sum of \$170, with interest, at 10 per cent. per month, and if said interest is not paid at the time of maturity of this note, said interest to be added to the principal, and said principal and interest together shall draw interest per month as above stated." These conditions were evidently not fulfilled, for a note is appended to the document as follows: "The above mortgage is not satisfied, according to the records of Ada County. With interest on \$170, at 10 per cent. per month, compounded every six months, the debt would now amount to \$45,072,003 182,826.50." There are a great many millionaires in the country, but there is probably only one man in the world who is indebted in the sum of nearly forty-six trillions of dollars.

THE APPLICATION OF COMPOUND INTEREST.

Direct compound interest is illegal in all the States. But every man that loans his money and keeps it out at a legal rate of interest receives and makes a compound rate of interest. He annually collects his interest, and that in turn loaned out again makes an accumulation equal to a regular compound rate of interest.

EXAMPLE:—If Captain Newport, at his first landing at Jamestown, Virginia, in 1607, had loaned out \$100 at compound interest, it would now equal a sum greater than the entire wealth of the United States.

COMPOUND INTEREST TABLE.

Showing the amount of \$1 from 1 to 15 years at compound interest, interest added semi-annually, at different rates. This table will be found valuable in computing interest on Savings Bank deposits, &c.

TEARS.	3	4	5	6	7	8	10
	Per Cent.						
1/4	1.015000	1.020000	1.025000	1.030000	1.035000	1.040000	1.050000
½ 1	1.030225	1.040400		1.060900		1.081600	1.102500
11/2	1.045678	1.061208	1.076890	1.092727	1.103718		1.157625
2	1.061383	1.082432		1.125509	1.147528	1.169858	
21/2	1.077284	1.104081	1.131408	1.159274	1.187696	1.216653	1.276281
3	1.098443	1.126162	1.159693	1.194052	1.229255	1.265319	1.340095
81/2	1.109845	1.148685	1.188685	1.229874	1.272279	1.315931	1.407100
4	1.126492	1.171659	1.218403	1.226770	1.316809	1.968569	1.477455
41/2	1.143390	1.195092	1,248863	1.304773	1.363897	1.423312	1.551328
5	1.160541	1.218994	1.280084	1.343916	1.410598	1.480244	1,628894
51/2	1.177949	1.243374	1.312086	1.384234	1,459989	1.539454	1.710339
6	1.195618	1.268241	1.344888	1.425761	1.511068	1.601032	1.795856
81/2	1.213552	1.293606	1.378511	1.468533	1.563958	1.665073	1.885649
7	1.231755	1.319478	1,412973 1,448298	1.512589	1.618694	1.731676	1.979931
71/2	1,250232 1,268985	1.345868 1.372785	1.484505	1.557967 1.604708	1.675349 1.733986	1.800943 1.872981	2.078923 2.182874
8	1.288020	1.400241	1.521618	1.652847	1.794675	1.947900	2.182874
81/2	1,307340	1.428246	1.559658	1.702433	1.857489	2.025816	2,406619
9	1.326950	1.456811	1.598650	1.753505	1.922501	2.106849	2.526950
10 91/2	1.346855	1.485947	1.638616	1.806111	1.989789	2.191123	2.653297
101/2	1.367058	1.515666	1.679581	1.860294	2.059431	2.278768	2.785962
11	1.387563	1.545980	1.721571	1,916103	2.131511	2.369919	2.925260
111/2	1.408377	1.576899	1.764610	1.973586	2.206114	2.464715	3.071523
12	1.429503	1.608437	1.808726	2.032794	2,283328	2.563304	3.225100
121/2	1.450945	1.640808	1.853944	2.093778	2.363245	2.665836	3.386355
13	1.472709	1.673418	1.900292	2.156591	2.445959	2.772470	3.555672
131/2	1.494800	1.706886	1.947800	2.221289	2.531567	2.883368	3.733456
14	1.517222	1.741024	1.996595	2.287927	2.620172	2.998703	3.920129
141/2	1.539980	1.775845	2.046407	2.856565	2.711878	3.118651	4.116135
15	1.563080	1.811361	2.097567	2,427262	2.806793	3.243397	4.321940

EXAMPLE.—What will \$400 amount to in 8 years and 6 months at 4 per cent compound interest, interest added semi-annually? Referring to table, it is found \$1 in 8 years and 6 months at 4 per cent will amount to \$1.400241. The amount of \$400 will be 400 times this or \$560.0864.

Norm,-If the interest only be wanted, deduct the principal, \$400, from \$550.0064.

INTEREST LAWS OF THE UNITED STATES.

Showing days of grace in the various States.

STATES AND TERRITORIES. PENALTI OF USURY. Alabama Forfeiture of all interest (a) 8 Alaska Forfeiture of debt (a) 8 Arizona. None (a) 6 Arizona. None (b) 7 Colorado None (b) 7 Colorado None (b) 7 Colorado None (b) 6 Delaware. Forfeiture of all above legal rate (b) 6 Delaware. Forfeiture of interest and principal (b) 6 Delaware. Forfeiture of interest (b) 6 Forfeiture of interest (b) 6 Georgia Forfeiture of excess of interest 7 Illinois. Forfeiture of excess of interest 4 Illinois. Forfeiture of excess of interest (a) 6 Illinois. Forfeiture of excess of interest (a) 6 Illinois. Forfeiture of excess of interest (a) 6 Illinois. Forfeiture of interest (b) 8 Illinois. Forfeiture of excess of interest (a) 6 Illinois. Forfeiture of excess of interest (a) 6 Illinois. Forfeiture of interest and costs (c) (a) 8 Illinois. Forfeiture of interest (a) 6 Illinois For
Alaska Forfeiture of debt (a) 8 10 per ct. Arizona. None (a) 6 10 per ct. California. None (b) 7 10 per ct. Colorado None (b) 8 10 per ct. Colorado None (b) 6 10 per ct. Colorado None (b) 7 10 per ct. Colorado None (b) 8 10 per ct. Colorado Por Colorado None (b) 8 10 per ct. Colorado Por Colorado None (b) 8 10 per ct. Colorado Por Colorado None (colorado None (
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Florida
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Idaho. (c) (b) 7 12 per ct.
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Kansas. Forfeiture of excess of interest (a) 6 10 per ct. Kentucky Forfeiture of excess of interest (a) 6 6 per ct. Louisiana Forfeiture of interest (a) 5 8 per ct. Maine None (a) 6 No limit. Maryland Forfeiture of all and legal interest on debt(b) 6 No limit. Massachusetts None (b) 5 7 per ct. Michigan Forfeiture of interest (a) 5 7 per ct. Mississipni Forfeiture of interest (a) 6 10 per ct. Porfeiture of interest (a) 6 10 per ct.
Kentucky. Forfeiture of excess of interest (a) 6 6 per ct.
Louisiana
Maine None (a) 6 No limit. Maryland Forfeiture of all and legal interest on debt(b) 6 per ct. Massachusetts None (b) 7 per ct. Michigan Forfeiture of interest (a) 5 7 per ct. Minnesota Forfeiture of interest (a) 6 10 per ct. Mississipi Forfeiture of interest (a) 6 10 per ct.
Massachusetts None (b) 6 No imit Michigan Forfeiture of interest (a) 5 7 per ct Minnesota Forfeiture of all interest (a) 6 10 per ct Mississippi Forfeiture of interest (a) 6 10 per ct
Massachusetts None (b) 6 No imit Michigan Forfeiture of interest (a) 5 7 per ct Minnesota Forfeiture of all interest (a) 6 10 per ct Mississippi Forfeiture of interest (a) 6 10 per ct
Massachusetts None (b) 6 No imit Michigan Forfeiture of interest (a) 5 7 per ct Minnesota Forfeiture of all interest (a) 6 10 per ct Mississippi Forfeiture of interest (a) 6 10 per ct
Minnesota Forfeiture of all interest (a)
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Mississippi Forfeiture of interest (a)
Missouri Horfaiture of excess of interest (s) 1 6 1 8 per et.
MIDSOUIT Of O por our
Montana None (b) 8 No limit Nebraska Forfeiture of interest and costs (a) 7 10 per ct.
Nebraska Forfeiture of interest and costs (a) 7 10 per ct.
Nevada None (b)
New Hampshire. Forfeiture of three times the interest 6 6 per ct
New Jersey Forfeiture of entire interest and costs (b) 6 6 per ct.
New Mexico Forfeiture of excess and \$100 fine (a) 6 12 per ct.
New York (d) (b)
North Carolina. Forfeiture of interest (a) 6 6 per ct. North Dakota Forfeiture of double the int. if collected (b) 7 12 per ct.
North Dakota Forfeiture of double the int. if collected (b) 7 12 per ct.
Ohio
Oklahoma Forfeiture of interest (a)
Oregon Forfeiture of principal and interest (b) 6 10 per ct
Pennsylvania Forfeiture of all interest (b) 6 6 per ct
Rhode Island None (a) 6 No limit
South Carolina. Forfeiture of double the interest (a) 7 8 per ct
South Dakota Forfeiture of interest and punishable as mis-
demeanor and fine not exceeding (500) (a). 7 12 per ct.
nnessee Forfeit. of excess of int., also misdem'r (b). 6 6 per ct.
Texas Forfeiture of entire interest, and if paid
double can be received back (a) 6 19 per ct
Utah
Vermont Forfeiture of excess of interest (b) 6 6 per ct
Virginia Forfeiture of excess over 6 per cent. (b) 6 6 per ct
Washington Forfeiture of twice amount of interest (b) 6 12 per ct
West Virginia Forfeiture of excess of interest (b) 6 6 per ct
Wisconsin Forfeiture of entire interest (b) 6 10 per ct
Wyoming (a)

⁽a) Grace. (b) No Grace. (c) Loss of interest by lender; 10 per cent from borrower for school fund. (d) Contract void; punishable as misdemeanor. (e) Defendant also forfeits 10 per cent, a year to school fund.

^{*18} per cent. on less than \$1,000. Corporations only 7 per cent.

SHORT METHODS OF COMPUTATION AND BUSI-NESS RECKONING TABLES.

SHORT RULES OF ARITHMETIC.

In these short rules, which we have developed and compiled, our aim has been to make them superior to anything that has ever been published. We have endeavored to teach the how, and not the why. Our object is brevity and completeness. Business demands brief and practical rules. To every farmer, teacher, mechanic, merchant, lawyer and laborer, these rules will prove available and valuable knowledge.

AN EASY WAY TO ADD.

This is a very simple and easy method, and will be a great help to those who find difficulty in adding long columns of figures correctly:

EXAMPLE: 47 Process.—Begin at 9 to add as near 20 as you can, thus: 7 9+2+4+3=18, reject the tens and place the 8 to 6 90 the right of the 3, as in example; begin at 6 and add 6+8+4=18, reject the tens, as before, and 4 place 8 to the right of 4, as in example; begin at 9 6+7+4=17, reject tens, place 7 to the right of 47 4, as in example; then 9+4+3=16, reject tens, 7 place 6 to the right of 3; then 6 + 7 + 4 = 17, reject 8 tens and place 7 to the right, as before, having 48 arrived at the top of the column, add the figures 8 in the new column, thus: 8 + 8 + 7 + 6 + 7 = 36, 6 or 3 tens and 6 units; place the 6 units as the 38 unit's figure of the sum, having 3 tens to carry to 4 5 tens, the number of integers or catch figures already 2 rejected. 3+5=8 tens, which prefixed with the 6, 9 makes 86 the sum. RA

N. B.—Two or more columns may be added in the same way by using a send pencil, and then erasing the figures used after the addition is completed.

The Civil Service Method of Addition. This method may be new to some but it should be understood by all. \$2492.27 9636,85 3254.36 27 3254.36 27 1622.31 400.10 32 4321.70 \$35697.64

Commence at the right and add each column of figures by itself, as for instance the first column equals 24; put down the 24; the next column equals 24; put it down as above; the next column equals 25, the next 27, and so on, and then add the results as shown in the above form.

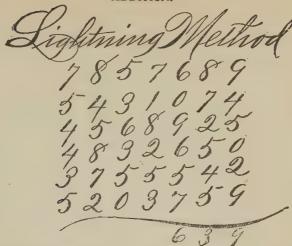
The advantage of this method is that a person's attention may be called to other things, while he is in the midst of his results and not lose any time or suffer any disadvantage. In the counting-house or places of business where there is a great deal of talking and many other things call the clerk, when he left off he is never at a loss to resume his work.

ADDING AND SUBTRACTING FRACTIONS.

To find the sum of two fractions with ones for numerators, add the denominators for the numerator of the answer and multiply them for the denominator. To subtract them, subtract the denominators for the numerator of the answer and multiply them for the denominator.

Thus, $1+1=\frac{1}{10}$, $1-\frac{1}{10}=\frac{1}{10}$.
This rule is well worth remembering.

ADDITION.



"Lightning addition" lies in the ability to see and take in the result of two or more figures without stopping to add each figure separately, i. e., to read results in figures as in reading a book, the meaning of the word or sentence is known without spelling out each syllable or word.

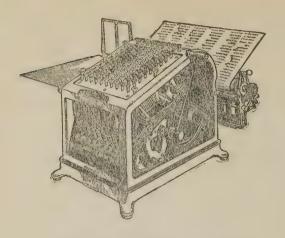
Process.—Commence at the bottom at the right and add thus in the above example: 11, 20, 29; then carry the 2 tens to the second column; then add, 7, 16, 25, 33; carry the 3 hundreds to the third column and add the same way; 10, 21, 30, 36, etc., etc.

Never allow yourself to add up a column in this manner; 9 and 2 are 11 and 5 are 16 and 4 are 20 and 9 are 29. It is just as easy to name the results of two or more figures at once, and five times as rapid.

Make combinations of 10 or of other numbers and add them as simple numbers. Thus in adding

 $8 + \overline{6+4} + 9 + \overline{3+7} + \overline{4+5+1} + 4 + 2$

say 8, 18, 27, 37, 47, 53, taking each group at a glance as a single figure. Group figures as conveniently as possible. After a little practice the mind readily grasps the groups of figures and results are quickly reached. You will be astonished at the result after gracticing a balf hour daily for a month.



THE MODERN ADDING MACHINE.

One of the most helpful inventions of modern times is the so-called adding machine. It not only adds, but subtracts, multiplies, divides, etc. It will add several columns at once, and as it is a machine it never can make a mistake—the answer is always correct. To err is human.

One of the Wonders of the Age.—Who of us would ever have thought it possible to produce a machine that would relieve the human brain of the tedious, nerve racking labor of adding long columns of figures? No wonder the famous inventor, W. S. Burroughs, spent 20 years of his life in perfecting it.

"The various elements that go to make up this result from a mechanical standpoint are complex almost beyond belief, and the course of Burrough's progress was strewn with countless difficulties, each one of which seemed to indicate the bitter end of all his hopes. But he never gave up.

Once, at a crucial point in the work, when it seemed as though all the laws of nature and the very elements of mechanics were arrayed against him, he remained alone with his work all day Monday, Monday night, Tuesday and Tuesday night—48 hours altogether—without a wink of sleep or a moment's rest. He emerged with the face of a ghost, but he was not tired or hungry or sleepy—he had won."

We who now so easily operate this mechanical masterpicce take little time to think of what it meant to work the dream of such a machine into a practical reality.

LIGHTNING METHOD OF MULTIPLICATION AND DIVISION.

To multiply by 125, divide by 8, and call it thousands, because 825 is 1/8 of a thousand.

To multiply by 121/2, divide by 8; call it hundreds.

To multiply by 11/4, divide by 8; call it tens.

To multiply by 62½, divide by 16, and call it thousands.

To multiply by 61/4, divide by 16, and call it hundreds.

To multiply by 311/4, divide by 32, and call it thousands.

To multiply by 333 1-3, divide by 3, and call it thousands.

To multiply by 33 1-3, divide by 3, and call it hundreds.

To multiply by 3 1-3, divide by 3, and call it tens.

To multiply by 50, divide by 2, and call it hundreds.

To multiply by 66 2-3, divide by 15, and call it thousands.

To multiply by 833 1-3, divide by 15, and call it ten thousands, by annexing four ciphers.

To multiply by 83 1-3, divide by 12, and call it thousands.

To multiply by 8 1-3, divide by 12, and call it hundreds, be cause 8 1-3 is 1-12 of a hundred. The reason is similar in each case.

To multiply by 166 2-3, divide by 6, and call it thousands.

To multiply by 16 2-3, divide by 6, and call it hundreds.

To multiply by 1 2-3, divide by 6, and call it tens.

To multiply by 37½, take ¾ of the number, and call it hundreds; 87½, ¾ of the number, and call it hundreds, etc.

We simply reverse these methods to divide. To divide by 10,100, 1,000, etc., we remove the point one, two and three places to the left.

To divide by 25, remove the decimal point two places to the left, and multiply by 4.

Removing the point two places divides by one hundred; hence the quotient is four times too small; hence we remove the point two places, and multiply by 4.

To divide by 21/2, remove the point one place to the left, and multiply by 4.

To divide by 125, remove the point three places to the left, and multiply by 8.

To divide by 12½, remove the point two places to the less and multiply by 8.

WRIGHTON WEARS OUT M : CHINERY.

To divide by 11/4, remove the point one point to the left, and multiply by 8. There are about 11/4 cubic feet in one bushel. Hence dividing the number of cubic feet by 11/4 gives the number of bushels nearly.

To divide by 1331/3, remove the point three places to the left,

then multiply by 3 and divide by 4.

To divide by 8½, remove the point two places to the left, and and multiply by 12.

SHORT METHODS OF MULTIPLICATION.

How to Multiply Any Small Number Ending with 5.

Example: 25×85. To the product of 2 and 8 add one-half their sum, and this result annex 25.

Solution: $\begin{array}{ccc} 25 & 5 \times 5 = 25 \\ 85 & 2 \times 8 = 16, 16 + \frac{1}{2} & (2+8) = 21. \end{array}$

This rule is very simple and useful; practice it, it never fails.

The Complement Rule.

The complement of a number added to the number makes it 10, or 100, or 1000, etc. The complement of 98 is 2, of 91 is 9. To find the product of these two numbers multiply the complements together; and for the other two figures subtract across, either the two from the 91, or the 95 from the 98.

How to Multiply Any Number by 21, 22, 23, 24, etc.

Multiply each figure in the multiplicand by the units figure in the multi2102 plier, increasing each separate product by double the figure to the
228 right of the one multiplied; double the last figure.

Solution: $3\times2=6$, $3\times0=0$, and double the right hand figure, 2, =4. $3\times1=3$, and double the right-hand figure, 0, =3. $3\times2=6$, double the 1.8. Double the last figure.

How to Multiply Any Number by 21, 31, 41, etc.

To multiply any number of two figures when the last is 1, or of three 230412 figures when the last two are 01.

230412 agures when the last two are 01.
Example: Multiply 230412 by 21. Instead of the ordinary long process, simply multiply by 2, placing the product one figure to the left, and then add. This rule is as practical as it is simple; try it, using 31, 51, 201, etc.

How to Multiply Any Two Numbers Whose Right-Hand Figures Add to Ten, and the Left-Hand Figures Are the Same.

Example: 87 Three times 7 are 21. Put down both figures, add one to figures, and figure, and then say 9 times 8 are 72. Put down both spares, and the applicary and the applicary from fit is simple.

Try it with, 21, 82, 43, 54, 65, 76, 87, 98, 47, 56, 65, 74, 89, 92

To Multiply by 9's.

To multiply by 9, 99, or any number of 9's annex as many ciphers to the audiplicand as there are 9's in the multiplier, and from the result subtract the multiplier.

Example: Multiply 2,736 by 999=2,736,000

2.788,264 Ans.

To Multiply by 11.

To multiply any two figures by 11, add two figures together and place their sum between the two figures of that number.

Example: 49×11=473, or 4, (4+3.) and 3. If the sum of the two figures exceeds 9, the left-hand figure must be increased by 1. Thus 48×11=528.

To Multiply by 75.

Find cost of 428 yards at 75 cents. Take ¼ of the number of yards, 107, subtract this from the number, 428-107-321 and call the remainder dollars. This is a very convenient and practical rule.

HOW TO DETERMINE RESULTS BY CANCELLATION.

- 1. Cancellation is the method of shortening operations by rejecting equal factors from numbers used as a divisor and the numbers used as a dividend.
- 2. Cancellation shortens the process of multiplication and division and is very practical in the following examples:

ILLUSTRATION: Multiply 18 x 16 x 28 and divide the result by 12 x 7 x 14. and it will equal 69.

Solution:

3 Or, 217 18 3

$$18 \times 16 \times 28 = 3 \times 16 = 65, Ans.$$
 $16 \times 28 = 3 \times 16 = 65, Ans.$
 $16 \times 28 = 265, Ans.$
 $16 \times 28 = 65, Ans.$

HOW TO ESTIMATE ALL KINDS OF PRODUCE. AND FIGURE UP WHEAT, OATS, POTATOES, ETC., SOLD BY THE BUSHEL.

Cancellation Method.

EXAMPLE: What will 1660 pounds of wheat cost at 80 cents a bushel ?

$$\frac{\cancel{50}}{\cancel{3}} \frac{\cancel{50}}{\cancel{66.40} = \cancel{5}22.13\frac{1}{3}}, Ans.$$

TION: It will be seen at a glance that pounds and the price are to be multiand the result divided by 60; so place n one side of the line and 60 on the ermine the result by cancellation, as above. This principle will apply to ty, and is one of the best and most in selving practical examples.

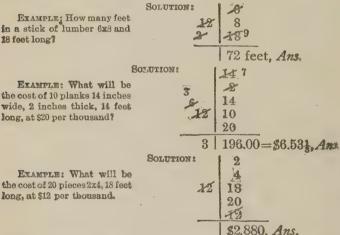


What will 2849 pounds of corn cost at 86 cents per bushed Solution:

78 .36 .36 .7 | 102.24=\$14.60\frac{4}{7}, Ans.

HOW TO FIGURE LUMBER BY CANCELLATION.

RULE.—Lumber is measured by the running foot. A foot square and one inch thick is the unit of measurement. It is easily seen that the number of pieces of lumber, multiplied by the length, and that result multiplied by the cost, and the total result divided by 12, will determine the cost of any quantity of lumber that may be desired.



HOW TO FIGURE UP THE PLASTERING OF A ROOM BY CANCELLATION.

RULE.—Multiply the distance around the room in feet by the height of the room in feet, and this result by the price per square yard, and divide the product by 9, because there are 9 square feet in a square yard. For the ceiling, multiply the length of the room by the width of the room in feet, and this by the price per square yard, and divide the product by 9. Additionally two results, and you have the cost of plastering the room.

Example: What would it cost to plaster a room 18 feet wide, 22 feet long, and 9 feet high, at 20 cents per square yard?

SOLUTION: $80 \ | 80 \ | 28^{2} \ | 22^{3} \ | 20 \ | 20 \ | = $24.80, Ans.$

RAPID METHODS IN BUSINESS CALCULATIONS.

Co Multiply Any Two Numbers Together, Each Having the Same Fractions.

Rule .- 1. Multiply the whole numbers together.

- 2. Add the two numbers together and multiply this sum by either one of the fractions.
 - 3. Multiply the two fractions together.
 - 4. Add the results together.

EXAMPLE:
12%
8%
96
15
111% Ans.

How to Multiply Any Mixed Numbers.

Example.-Multiply 16% by 9%.

Rule.—1. Multiply the whole numbers together.

2. Multiply the upper whole number by the lower fraction.

3. Multiply the lower whole number by the upper fraction.

6. Multiply the fractions together.

6. Add the four products together.

162½ Ans.

N. B.—The middle parts should be added mentally without writing them out.

Business Methods for Multiplying All Kinds of Mixed Numbers.

Rule.—Multiply the whole numbers together, then multiply each whole maker by the fraction in the other number to its nearest unit and add the products.

Note.—In business it is the custom to reject fractions less than 1/2 in each same and count one for each fraction over 1/2.

How much will 34% yards of cloth cost at 22% cents per yard. Solution: 34 x 22-\$7.48

Solution: 34 x 22=\$7.48 34 x ½= .17 Nearest unit, 22 x ¾= .16½ ¾ x ½= ¾

\$7.81%=7.82 Ans.

What is the cost of 17 dozen and 9 eggs at 12% cents per dozen? Solution: 17 x 12=\$2.04

Solution: $17 \times 12 = 2.04 $17 \times \frac{1}{2} = 9$ (Make the $\frac{1}{2}$ a unit.)

9 eggs=% dezen, 12 x %= 9

\$2.22 Ans.

The Curious Figure 9.

Multiply 9 by any figure you like, and the sum of the digits of the product will be 9. Thus, $4 \times 9=36$; add the digits, 3+6=9. So it goes up to 11 times 9=99; add these, 9+9=18, add again 8+1=9. You will never be able to get away from the figure nine. $9 \times 454=4036$, add the digits and the result is 18, and 8 and 1=9.

Again: Take a row of figures.

Reverse the order of the figures.

487,682
238,784

Subtract, 250,848 add the digits and the result is 27, and 2 + 7 = 9.



How to Find the Number of Yards of Carpet to Cover a Floor.

Ingrain carpet is 1 yard wide, Brussels and velvet carpets are
¼ yard wide.

Rule,—Divide the width of the carpet into the width of the room and the result will be the number of strips; multiply the number of strips by the length of the room and the result will equal the number of yards of carpeting to cover the floor.

If there is a fraction in the division add one to the number of strips. In that case it will be necessary to turn under the carpet at one side.

Example: A room is 12 feet, 9 inches by 14 feet, 6 inches. How much ingrain carpet is required to cover the floor?

12% ft., width of room \div 3 width of ingrain carpet = 4 and a fraction. 5 strips are therefore required. 14% ft. length of room \times 5 = 72% ft + 3 = 24% yards.

It is sometimes more desirable or economical to run the strips crosswise. In that case divide the *length* of the room by the width of the carpet, and multiply this, the number of strips, by the width of the room.

Example above: $14\frac{1}{2}$ ft., length of room, \div 3 = 4 and a fraction. It, therefore, takes 5 stripe. 12% ft., width of room. \times 5 = 63% ft. \div 3 = 21% yde.

The difference in the results arises from the fact that more must be turned under when the strips run lengthwise.

For Brussels carpet reduce the width or length to inches and divide by 27, width of Brussels in inches. The result will be the number of strips, then proceed as above.

How to Find the Amount of Paper Required to Paper a Room.

Measure the distance around the room; deduct the width of each window and door; take 2/3 of the result and it will equal the number of strips required. Divide the result thus found by the number of strips that can be cut from one roll, and it will equal the number of rolls required to paper the room.

Each roll is 11/2 feet wide, 24 feet long and contains 36 square feet or 4 square yards.

If the room has but few doors and windows, no allowance is made for them, as there is always a waste in cutting the paper. Paper will stick better on new walls, if they are brushed over with a sizing of weak glue. If you have no glue, brush paste over the wall, as well as over the paper.

How to Find the Contents of a Watering-Trough.

Rule.—Multiply the height in feet by the length in feet, and the product by the width in feet, and divide the result by 4, and you will have the contents in barrels of 31½ gallons each.

Example: What are the contents of a watering trough 8 feet long, 4 feet wide, and 3 feet deep?

Solution: $3\times4\times8 \div 4=24$ barrels.

Note.—For exact results multiply the length in inches by the height in inches, by the width in inches, and divide the result by 231, and you will have the contents in gallons.

How to Find the Contents of a Round Tank.

Multiply the square of the diameter in feet by the depth in feet, and multi-this result by 6, and you have the approximate contents of the tank in gal-lons. (For exact results multiply the product by 5% instead of 6.)

Example: How many gallons will a tank hold 6 feet in diameter and 8 feet deep?

Solution: $6\times6\times8=288$.

 $288 \times 6 = 1728$ gallons. Ans.

Note.-If the tank is larger at the bottom than at the top, find the average diameter by measuring the middle part of the tank, half way between the top and bottom.

FOR MORE EXACT RESULTS.

Rul 3 .- Multiply the square of the diameter in feet by the depth in feet, and multively this result by 47, and divide the product by 8, and you will have the number of gallons.

NOTE.—In calculating the capacity of tanks, 311/2 gallons are estimated to one barrel, and 63 gallons to one hogshead.

A TABLE FOR CIRCULAR TANKS ONE FOOT IN DEPTH.

Five feet in diameter holds..... 4½ barrels. Six feet in diameter holds...... 6% Seven feet in diameter holds. 9
Eight feet in diameter holds. 12
Nine feet in diameter holds. 15
Ten feet in diameter holds. 19% 66 65 66

N. B .- To find the contents of a tank by the table, multiply the contents of one foot in depth by the number of feet deep.

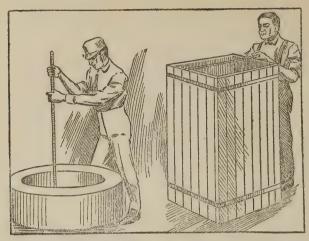


Table for Square Tanks One Foot in Depth.

A Tank	Five feet by five feet holds 6 ba	rrels.
6.6	Six feet by six feet holds 8½	4.6
6 6		66
6.6	Eight feet by eight feet holds15%	6.6
6.6	Nine feet by nine feet holds19½	46

"Ten feet by ten feet holds.......23¾ "

To find the contents of a trough, measure its depth in feet and multiply it by the contents of one foot in depth.

Shorter Forms of How to Find the Contents of Cylindrical Cisterns, Tanks, Etc.

If you cut the largest possible square from a circle drawn on paper, the square will be a little more than ¾ of the whole circle. Therefore, to find the area of a circle, take ¾ of the square of the diameter (or for exactness .78) and the result will be the area of the circle.

Rule.—Multiply the square of the diameter of the eistern in feet, by the height in feet, and divide this result by 5, and it will equal the number of barrels the cistern will hold (approximately). (Or for exact results, instead of dividing by 5, take \{\frac{1}{2}}\text{of the product.})

Example: A cistern is 5 feet in diameter, and 8 feet deep. How many barrels will it hold?

Solution: $5\times5\times8=200$. $200\div5=40$ barrels. Ans. To find the number of gallons, multiply by $31\frac{1}{2}$.



FINDING THE CONTENTS OF A BARREL.

BARRELS

In measuring cisterns, reservoirs, vats, etc., the barrel is estimated at 31½ gallons, and the hogshead at 63 gallons.

A gallon of water weighs nearly 81/8 pounds, avoirdupois.

A pint is generally estimated as a pound.

How to Find the Contents of Barrels and Casks.

Rule.—Add together the diameters of the bung and head in inches, and divide the sum by 2, and its result will equal the average diameter. Then multiply the square of the average diameter by the length in inches and multiply this result by 34 and cut off the four right hand figures, and you wilt have the number of gallons.

Example: How many gallons in a barrel whose bung diameter is 22 inches, head diameter 18 inches, and length 30 inches?

Solution: $22 + 18 \div 2 = 20$, average diameter. $20 \times 20 \times 30 \times 34 = 40.8000$, or 40 ± 91000 gallons

To Find the Number of Barrels in a Square Cistern.

Multiply the height, width and depth together, and divide the product splained by 4 (or for exactness, by 4.2), and the result will equal the number of barrels of \$1\% gals. each the cistern will hold.

Example: $4 \times 8 \times 5 = 160$. $160 \div 4 = 40$ barrels.

STONE-WORK.

A cord of stone, three bushels of lime and a cubic yard of sand will make 100 cubic feet of wall.

One cubic foot of stone-work weighs from 130 to 175 pounds.

Short Method of Estimating Stone-work.

Rule.—Multiply the length in feet by the height in feet, and that by the thickness in feet, and divide this result by 27½ and the quotient will be the number of perches of stone in the wall.

Example: A wall is $4 \times 15 \times 2 = 120$ the solid contents, 120 $\div 27\% = 4\%$ perches.

N. B.—A perch of stone is a variable measure of about 25 cubic feet. Usually 24% cubic feet are allowed, to which 2% cubic feet are added for the mortar and filling, making 27% cubic feet of wall for every perch of stone.

How to Find the Number of Cords of Stone to Build Cellar and Barn Walls.

RULE.—Multiply the length, height and thickness together in feet and divide the result by 156.

N. B.—There are 128 cubic feet in a cord, but the mortar and sand make it necessary to use but 100 cubic feet of stone.

FACTS FOR BUILDERS.

A cubic yard of sand is called a load.

Five hundred bricks make a load.

A bricklayer's hod will hold 20 bricks; the ordinary load, however, is 16 walling, or 12 facing bricks. A bricklayer can lay about 1,500 bricks in a day of 10 hours, where the joints are left rough; about 1,000 when both faces are to be worked fair, and not more than 500 when carefully joined and faced with picked bricks of a uniform color.

To every barrel of lime estimate about 5% of a cubic yard of good sand for plastering and brickwork.

One-third of a barrel of stucco will hard-finish 100 square yards of plastering.

One and one-quarter barrels cement and 3/4 yards sand will lay 100 feet rubble stone.

One and one-eighth barrels of lime and 5% yards of sand will lay 1,000 bricks.



HOW TO FIND THE NUMBER OF COMMON BRICKS IN A WALL OR BUILDING.

A BRICK is 8 inches long, 4 inches wide and 2 inches thick, and contains 60 cubic inches. Twenty-seven bricks make one cubic foot of wall without mortar, and it takes from 20 to 22 bricks according to the amount of mortar used to make a cubic foot of wall with mortar.

Rule.—Multiply the length of the wall in feet by the height in feet, and that by its thickness in feet, and then multiply that result by 20, and the product will be the number of bricks in the wall.

Example: How many bricks in a wall 30 feet long, 20 feet high and 18 inches thick?

Solution: 30 length \times 20 height \times 1½ thick = 900 \times 20 = 18.000. Ans.

N. B.—For a wall 8 inches thick, multiply the length in feet by the height in

fleet, and that result by 14, and the product will equal the number of bricks.

When doors and windows occur in the wall, multiply their height, width and thickness together, and deduct the amount from the solid contents of the wall before multiplying by 20 or 14, as the case may be.

BRICK-WORK.

Five courses of bricks will make one foot in height on a chim ney.

One cubic foot of brick-work with common mortar weighs from 100 to 110 pounds.

A cask of lime will make mortar sufficient for 1.000 bricks

FOR PLASTERING.

Six bushels of lime, 40 cubic feet* of sand, and 11/2 bushels of hair will plaster 100 square yards with two coats of mortar.

In plastering no deductions are made for openings, because the extra work in finishing around them balances the material saved.

*N. B.—There are about 11/4 cubic feet in a bushel

CEMENT AND HOW TO USE IT.

The word "Concrete" itself is of Latin origin, meaning "grown together" and implies a body formed by separate particles of different materials combined into a solid mass.

Kinds of Cement.—There are two general kinds, Natural and Portland Cement. The raw material from which natural cement is made is found in a natural state and is made by calcining (burning) cement rock, but the temperature required is considerably lower than that needed for making Portland Cement.

Portland Cement, however, is the kind used almost exclusively in this country and is manufactured in about 25 different states. The raw materials used by different plants vary greatly, nor is the chemical composition the same, so that it cannot be teduced to a formula.

What Portland Cement is.—So far, then, as it is possible to give an accurate definition, Portland cement may be defined as any cement which, on being tested, will manifest the characteristic properties that engineers have agreed to associate with the name "Portland" and which will meet the requirements that have been accepted as standard.

Raw Materials.—As a matter of fact, however, the raw materials are limestone (also chalk and marl, which are really torms of limestone), clay, shale and slate as is also blast-furnace slag. These in proper proportion are heated to a temperature at which melting begins (2000° to 4000°F). The resulting cement clinker is then ground to an impalpable powder to which a very small percentage of gypsum is added.

How to Use Cement.—In using cement for concrete work it is necessary to mix it with water and aggregates—these aggregates consist of sand, crushed stone or gravel. That is to say, you must use either cement, sand and gravel or cement, sand and crushed stone, or any material that can take the place of gravel or crushed stone. These must be thoroughly mixed and the proper amount of water added.

The Proportions required for different kinds of cement or concrete construction are shown in the following TABLE. For example for a rich mixture 1:2:4 means one part cement, 2 parts sand and 4 parts gravel or crushed stone.

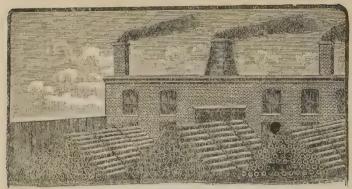
By Consistency is meant the relative wetness of the mixture. VERY WET is mushy enough to run readily off the shovel. MEDIUM WET is wet enough to make it jelly-like. DRY MIXTURE is about like damp earth used generally for foundations, etc.

APPROXIMATE MIXTURES ADAPTABLE TO VARIOUS CLASSES OF WORK.

Rich, 1:2:4; Medium, 1:2½:5; Ordinary, 1:3:6; Lean, 1:4:8.

Kind of Work	Mixture	Consistency
Abutments Arches Backing for Masonry Beams, Reinforced Beams, Plain Building Blocks Cisterns Columns, Reinforced. Conduits, Water. Coping Culverts, Reinforced Culverts, Plain	Rich to Medium Lean Rich to Medium Rich to Medium Rich to Medium Rich to Medium Rich Rich Rich Rich Rich Rich to Medium Medium to Ordinary Medium to Ordinary	Medium Medium Medium to Dry Very Wet Very Wet to Medium Very Wet to Medium Very Wet to Medium Very Wet Medium Medium Medium Medium Medium
Driveways Fence Posts Floors, Reinforced Floors, Ordinary Ground, Footings Foundations, Heavy Vibrating Machinery Foundations, Ordinary Machinery	Rich Rich to Ordinary Medium to Ordinary Ordinary t) Lean Rich	Very Wet to Medium Very Wet to Medium Medium Medium Very Wet to Medium Medium
Machinery Foundations, Thin Walls Foundations. Thick Walls Girders, Reinforced Girders, Plain Gutters Pavements Piers	Medium to Lean Rich to Medium Same as Beans Same as Sidewalks Same as Sidewalks	Very Wet to Medium Medium to Dry Very Wet
Reservoirs Roof Slabs Sewers, Reinforced Sewers, Plain Sidewalks (Base) Sidewalks (Sub-Base) Silos Tanks Walls, Dwelling Houses. Walls, Large Buildings.	Rich to Medium Medium to Ordinary Rich to Medium Medium Medium to Ordinary	Very Wet to Medium Medium Medium Medium Medium to Dry Medium to Dry Very Wet to Medium Very Wet to Medium Very Wet to Medium Very Wet to Medium
(Compression and Tension) Walls, Large Buildings (Compression Only) Walls, Massive Walls, Retaining Walls, Thin Foundations. Walls, Tunnel	Medium to Ordinary Medium to Ordinary	Medium

NOTE.—The above facts and table are used by permission of W. A. Radford, editor-in-chief of the "Cement World," etc.



A TILE FACTORY.

HOW TO FIND THE CARRYING CAPACITY OF TILE. Gallons Per Minute.

	FALL PER 100 FEET.							
SIZE OF TILE.	1 in.	3 in.	6 in.	9 in.	12 in.	24 in.	36 in.	
8-inch	13	23	32	40	46	64	79	
4-inch	13 27 75	47	66 183	81 224	93	131 364	163 450	
8-inch	153	129 265	875	460	258 529	750	923	
9-inch	205	355	593	617	711	1006	1240	
0-inch	267	463	655	803	926	1310	1613	
2-inch	422	730	1033	1273	1468	2076	2551	

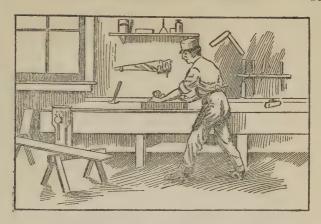
A large tile will carry more water according to its size than a small one. This is because there is less surface on the inside of the large tile compared with the size of stream, and therefore less friction. More water will flow through a straight tile than a crooked one having the same diameter.

EXAMPLE: A nine-inch tile at 6 inches fall to the 100 feet will flow 593 gals, per minute.

AREA AND WEIGHT OF TILE.

The following table shows the area and the weight of the different sized tile:

SIZE.	WEIGHT.	AREA.	SIZE.	WEIGHT.	AREA.
8 inch	5 lbs. ea. 6 44 7 44 10 44 12 44	8½ sq. in. 9½ " 14 " 21½ " 30½ •	7 inch	18 "	41 sq. in. 53% " 67 " 80% " 113 "

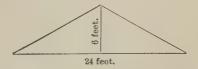


A COMPLETE SET OF CARPENTER'S RULES.

Plain, Simple and Practical.

THE GABLE is a space the form of a triangle on the end of a building, with a common double roof.

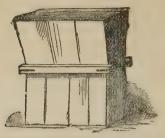
QUARTER PITCH.—Is a roof that is one-fourth as high as the width of the building.



Rule.—To find the area of the gable end, multiply the width of the building by the height of the roof, and take one-half of the result. Or, if the roof is "quarter pitch," find the area by multiplying width of the roof by 1/8 of itself.

To find the number of feet of stock boards to cover a house or barn.

Rule.—Multiply the distance around the barn by the height of the post, and to this result add the area of the two gable ends. (If there are many openings, allowance should be made for them).



How to Find the Number of Shingles Required for a Roof.

Rule.—Multiply the length of the ridge pole by twice the length of one safter, and, if the shingles are to be exposed 4½ inches to the weather, multiply by 9, and if exposed 5 inches to the weather, multiply by 8, and you have the number of shingles.

Note.—Shingles are 16 inches long, and average about 4 inches wide. They are put up in bundles of 250 each.

Rule.—900 shingles, laid 4 inches to the weather, will cover 100 square feet, and 800 shingles laid 4½ inches to the weather will cover 100 square feet.

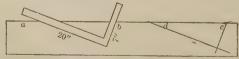
How to Find the Number of Laths for a Room.

Laths are 4 feet long and 1½ inches wide, and 16 laths are generally estimated to the square yard. There are 50 in a bunch.

RULE.—Find the number of square yards in the room, and multiply by 16, and the result will equal the number of laths necessary to cover the room.

FLOORS AND SIDING.—To find the number of feet of 6-inch matched flooring for a given floor. Find the number of square feet of surface to be covered, and add } of itself to it, and the result will be the required number of feet.

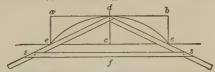
FOR THREE-INCH FLOORING.—Find the number of square feet to be covered, to which add ½ of itself.



How to Find the Length and Bevels of Rafters.

1. Place your steel square on a board (say the building is 40 feet long), 20 inches from the corner one way, and 7 inches the other, and mark it as shown in the above figure. Now the angle at c will be the bevel of the upper end, and the angle at d the bevel at the lower end of the rafter.

2. LENGTH OF RAFTER.—The length will be from a to b on the outer edge of the board. The 20 inches shows the 20 feet, or half of the width of the building; the 7 inches the 7 foot rise. Now the distance from a to b, on the edge of the board, is 21 inches, two-twelfths and one-quarter of a twelfth (always use a square with inches on one side divided into twelfths), therefore this rafter will be 21 feet and $2\frac{1}{4}$ inches long.



How to Make a Curve with a Set Triangle.

1. In the above figure let a, b represent the length, and c, d the height of the curve. Drive two awls at e and e; then take two strips, marked s s, and nail them together at the point d, and spread out the sides to the awls at e and e; then tack on the brace f, hold a pencil at the point d, then move the point toward the point e both ways. Be sure and keep the strips s s hard against the awls at e and e, and the pencil will mark out the exact curve,

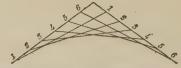
SLATE TABLES.

Slates are sold by the square, which covers 100 square feet, weighs about 600 pounds and costs from \$3.00 to \$10.00: average about \$5.00. They are laid with three inches under-lap, and to find how much to lay each size to the weather subtract three inches from the length of the slate and divide the remainder by two.

Example: How much will an 18 inch slate lay to the weather? Solution: 18 - 3 = 15, $15 \div 2 = 7\%$ inches. Ans.

NUMBER OF SLATES PER SQUARE.

Sizes	Number	Sizes	Number	Sizes	Number	Sizes	Number
6x10	685	8314	328	10x18	192	13x22	116
7x10	- 588	9x14	291	11x18	175	14x22	108
8x10	515	10x14	262	12x18	160	12x24	115
8x12	534	12x14	219	10x20	170	13×24	105
7x12	458	8x16	277	11x20	154	14x24	98
8x12	400	9x16	247	12x20	142	16x24	86
9x12	856	10x16	222	14x20	121	18x24	77
10x12	320	12×16	185	11x22	138	14x26	90
7x14	874	9x18	214	12×22	127	14x28	88
The state of the s	1			The same of the sa	/ 1		-



How to Make the Curves for Brick and Stone Arches.

Measure the width, and draw the figure as above. If the points in 1, 2, 3, 4, etc., are equal on both sides, the curve will be an exact part of a circle.

DEFINITIONS FOR MECHANICS.

An angle is the opening between two lines that have a different direction.

When two straight lines cross each other so as to form four

equal angles, each angle is called a right angle.

An acute angle is less than a right angle. An obtuse angle is greater than a right angle.

A triangle is a figure having three sides.

A surface having four straight lines and four right angles is called a rectangle.

A rectangle whose sides are equal is called a square. The perimeter of a figure is the distance around it.

An arc is any part of the circumference of a circle.

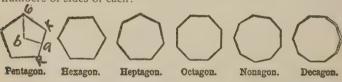
A chord is a line drawn through the circle and ending on the circumference.

A quadrant is a quarter circle.

A tangent is a line that touches a circle but does not cut it.

A polygon is a figure bounded by straight lines.

The following figures show the principal polygons used with numbers of sides of each:



Concentric circles are circles that have the same center and the space included between their circumference is called a ring.

POINTERS FOR MECHANICS.

A good stain for floors is made by boiling shellae and borax in water.

Marble mantels require very careful handling.

Gas fixtures should be carefully stored away in some dry place, for they may often be in service, and can easily be renovated is tarnished or soiled.

Furnace registers should never be placed near a mantel if it is desired to utilize the heat.

A monthly rubbing of floors with oil is much better than

painting. This will also make them look as good as new.

Locks, hinges, keys and other hardware should have special care, every piece represents money, and if not well cared for will result in waste.

Porch floors should be made of narrow stuff! it is well to

lay the joints in white lead.

Shingles or any other light wood work can be made fire proof by using lime water.

Poor work testifies to the fact that the lowest priced builder

is not always the cheapest.

Use oak instead of maple for basement flooring, because it

will stand dampness better.

Tools should be kept in a handy place and in good condition.

There is nothing like having an exact place for every tool and keeping it there when not in use.

Keeping tools in good order is as essential as keeping them

in the proper place.

No man should use a dull tool. If there is time to use it there ought to be time to keep it in good order.

Old material should never be destroyed because it is old. Do not use one chimney flue for two stove-pipes; one

draught may counteract the other. It is well to have a ventilating flue from the kitchen into the

enimney; this will do away with atmospheric meals.

Don't grumble if you do not get as good results from the use of old material as from new.

Fasten stops to doors and windows with round-headed

screws: they can be easily removed.

Moths and insects will not be found in closets finished with red cedar shelves and drawers.

All fixtures, such as grates, hearth-stones, bath-tubs, desks, heating appliances, should be moved with care; they may frequently be used for inferior fixings and thus much money s' ved.

Furnaces should be located with care. It is easier to force warm air through a furnace flue 50 feet away from the prevalen?

wind than 10 feet in the opposite direction.

Hot air flues should not be carried for any distance through cold cellars or basements, as they will become chilled, and will not draw, unless they are inclosed in some non-conducting material.

Hot water heating has a number of advantages in its favor. For mild climates it answers very well; there are, however, objections to its use in northern latitudes.

Hot water will cool down and freeze much quicker than

ordinary water, under the same circumstances.

23 Standard

In soldering, see that the surface to be soldered is clean; in not, make it so by filing or scraping.

There is no surer way of gaining knowledge than by a careful and understanding watchfulness of others in the same line of

business as yourself.

Don't tell all you know, or else others will know one valuable thing that you don't know, and that is that you don't know as much as you pretend to know.

USEFUL AND PRACTICAL RULES FOR MECHANICS,

To Find the Diagonal of a Square. Multiply the side of the square by 1.41421.

To Find the Circumference of a Circle.

Multiply the diameter by $3\frac{1}{7}$ or multiply the area by 12.566 and extract the square root of the product.

To Find the Area of a Circle.

Multiply the square of the radius by 3½.

The radius is one-half the diameter.

To Find the Diameter of a Circle.

Divide the circumference by 31.

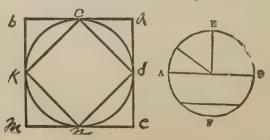
To Draw a Circle Through Three Points.

Let the three points be A, B and C. Join A and B and B and C by straight lines. At the middle points of these lines draw lines perpendicular to them. This can easily be done by using a square. Produce these lines and let them meet at O. O is the center of the circle. With O as center and OA as radius construct the circle.

To Find the Area of any Polygon.

Find the center of the figure and multiply distance around the figure (perimeter) by one-half of the diameter and the result will equal the area.

Inscribed and Circumscribed Squares.



The square described within the circle is exactly half as rge as the square described outside of the circle, that is the described one is one half the area of the circumscribed square.

The square c dn k contains exactly one-half the area of the

square a c m b.

It is thus easily seen that the area of the circumscribed square—(that is the square a c m b) is equal to the square of the diameter of the circle.

How to Lay Off Small Lots of Land.

Farmers and gardners often find it necessary to lay off small portions of land for the purpose of experimenting with different crops, fertilizers, etc. To such the following rules will be helpful:

One acre contains 160 sq. rods, or 4,840 sq. yards, or 43,560 sq. feet.

One acre it will take 208, feet each way. One-half acre it will take 147½ feet each way. One-third acre it will take 120½ feet each way. One-fourth acre it will take 104% feet each way. One-eighth acre it will take 73% feet each way.

How to Make an Ice Chest.

Take two dry goods boxes, one enough smaller than the other to leave a space of three or four inches all around when placed inside the larger box. Pack this space between the two boxes closely with sawdust and make a heavy cover to fit neatly inside the top of the larger box. A small pipe inserted in the bottom of the chest will carry off the waste water. For family use and all ordinary purposes it will be as serviceable as refrigerators costing twenty-five times as much.

THE LIGHTNING METHOD FOR MEASURING LUMBER.

1. A FOOT OF LUMBER is one foot long, one foot wide and one inch thick. This is called a Board Foot.

2. PIECE STUFF OR DIMENSION STUFF is lumber that is two or

more inches thick and of uniform width and length.

3. SCANTLING is usually from three to four inches wide and from two to four inches thick.

4. Joist is two-inch lumber of any width.

5. Plank is two inches in thickness and wider than a scantling.

Rule for 12-foot Boards: Find the width of the boards in inches and add together, and the sum obtained will be equal to the number of feet in the pile. (Each inch in width equals one foot of lumber.)

Note: Use no fractions. If a board is between 9 and 10 inches wide, but nearer 9 than 10, call it 9; if nearer 10 than 9, call it 10. If it is 91/2, call it

either 9 or 10.

For 14-foot boards add the width of the boards in inches, and to the sum add 1 of itself, and the result will equal the number of feet in the pile.

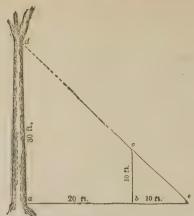
For 16-foot lumber, add the width of the boards in inches and to that sum add 1 of itself, and you will have the number of feet in the pile.

Example: How many feet of lumber in ten boards, 9 inches wide, and 18

feet long?

Solution, $10 \times 9 = 90$. 14 of 90=30.

80+90=120, the number of feet.



How to Find the Height of a Tree.

Suppose you desire a log 30 feet long — measure off from the base of the tree 30 feet — (allow for the height of the stump), then measure 10 feet back, and put your 10-foot pole at b; let some one hold it the height of the stump from the ground, then put your eye at e, looking over the top of the pole at c, and where the eye strikes the tree at d, will be 30 feet from c.

N. B.—This rule will apply to an tree, or any height. The princip.... hold true in any case.

How to Find the Height by Measuring the Shadow.

Rule: Measure a pole, and hold it perpendicular in the sun, and measure its shadow, then measure the shadow of the tree whose height is desired. Then multiply the length of the pole by the length of the tree's shadow, and divide the product by the length of the shadow of the pole, and the result will be the height of the tree.

Example:—If a pole 3 feet long casts a shadow $4\frac{1}{2}$ feet long, what is the height of a tree whose shadow measures 180 feet?

Solution:—180x3÷4½=120 feet, the height of the tree.

How to Ascertain the Number of Feet (Board Measure) in a Log.

Rule: Subtract from the diameter of the log in inches, 4 inches (for slabs); one-fourth of this result squared and multiplied by the length in feet will give the correct amount of lumber made from any log.

Example:—How many feet of lumber can be made from a log which is \$6 inches in diameter and 10 feet long?

Solution:—From 96 (diameter) subtract 4 (for slabs) = 32. Take ½ of 32 = 8, which multiplied by itself equals 34. Then multiply 64 by 10 (length) = 640. Ans.

ROPP'S RULE: Square the diameter in inches and subtract 60 from the result, then multiply this result by the length and divide by 2, and cut off the right hand figure.

EASTERN LOG TABLE.

(For larger logs see table on page \$54,)

20															-		
Jr.	Dia.	Dia.	Dia.	Dia. 9	Dia. 10	Dia. 11	Dia. 12	Dia. 13	Dia.	Dia. 15	Dia. 16	Dia.	Dia. 18	Dia. 19	Dia. 20	Dia. 21	Dia. 22
10 11 12 13 14 15 16 17 28	15 16 18 19 21 22 24 25 27	20 22 24 26 28 30 32 34 36	25 27 80 82 85 37 40 42 45	30 33 36 39 42 45 48 51 54	35 38 42 45 49 52 56 59 63	40 44 48 52 56 60 64 68	49 54 59 64 69 74 79 84	61 67 73 79 85 91 97 103	72 79 86 93 100 107 114 122	89 98 107 116 125 134 142 151	99 109 119 129 139 149 159 168	116 127 139 150 162 173 185 196	138 147 160 173 187 200 213 227	150 165 180 195 210 225 240 255	175 192 210 227 245 262 280 297	190 209 228 247 266 285 304 323	209 230 251 272 292 313 334 855
19 20 21 22 23 24 25	28 80 81 83 84 86 37	88 40 42 44 46 48 50	47 50 52 55 57 60 62	57 60 63 66 69 72 75	66 70 73 77 80 84 87	72 76 80 84 88 92 96 100	88 98 103 108 113 118 123	109 116 122 128 134 140 146 152	129 136 143 150 157 164 172 179	160 169 178 187 196 205 214 223	178 188 198 208 218 228 238 248	208 219 232 243 255 266 278 289	240 253 267 280 293 307 320 333	270 285 800 315 830 345 860 875	315 332 350 368 385 403 420 438	349 361 380 399 418 437 456 475	376 397 418 439 460 480 501 522

CUBICAL CONTENTS OF ROUND TIMBER.

fong	Dia.	Dia 7	Dia 8		Dia.	Dia. 10	Dia.	Dia. 12	Dia. 13	Dia. 14	Dia. 15	Dia. 16	Dia.	Dia. 18	Dia. 19	Dia., 20	Dia.
8	1.57 1.76		0 3.	14	3.53 3.97	5	5	6	7 8	8	10 11	11 12	12 14	14 16	16 18	17 20	19 22
10	1.96 2.16	2.9	4 8.	84	4.42 4.86	6	7	8 8 8	10	10 12	12 18	14	16 17	18 19	20 22	22	26
12 13 14	2.35 2.55 2.75		7 4.	54	5.30 5.74 6.19	6 7 7	8 9	9 10 11	11 12 13	13 14 15	15 16 17	17 18 19	19 20 22	21 23 25	24 26 28	26 28 31	29 31 34
15	2.94 3.14	4.0	5 5.	24	6.63 7.07	8	10 11	12 12	14 14	16	18 20	21 22	23 25	26 28	30 32	33	36
17	3.33	4.5	1 6.	28	7.51 7.95	9	11 12	13 14	16 16	18 19	21 22	24 25	27 28	30 32	33 35	39	41
19 20	3.78 3.92	5.0° 5.3°			8.39 8.84	10 11	13 13	15 16	17 18	21 21	23 25	27 28	30	83 35	37 39	41 44	45 48
10mm	1	-			-	-	7	/		1	1	1	1		1	,	
Ft.	Dia. 1	Dia. I	Dia. 1	Dia. 25	Dia. 26	Dia.	Dia.	Dia. 29	Dia.	Dia.	Dia.	Dia.	Dia.	Dia.	Dia.	Dia.	Dia. 38
long 8	22	23	24 25	25 27	26	32	34	37	30	31	32 45	33	34 50	35 53	86 57	60	38 62
8 9 10	21 24 26	23 23 26 29	24 25 28 31	25 27 81 34	26 29 33 37	32 36 40	28 34 38 43	37 41 46	39 44 49	31 42 47 52	32 45 50 56	33 48 53 59	50 57 63	35 53 60 67	57 64 71	60 67 75	38 62 70 79
8 9 10 11 12	21 24 26 29 32	23 23 26 29 32 34	24 25 28 31 35 88	25 27 81 34 37 41	29 38 37 41 44	32 36 40 43 47	34 38 43 47 51	37 41 46 50 55	39 44 49 53 58	31 42 47 52 57 62	32 45 50 56 61 67	48 53 59 65 71	50 57 69 76	35 53 60 67 73 80	57 64 71 77 85	60 67 75 82 90	38 62 70 79 86 94
8 9 10 11 12 13	21 24 26 29 32 34 37	23 26 29 32 34 37 40	24 25 28 31 85 88 41 44	25 27 81 34 37 41 44 48	29 33 37 41 44 48 52	27 32 36 40 43 47 51 55	34 38 43 47 51 56 60	37 41 46 50 55 60 64	39 44 49 53 58 63 68	31 42 47 52 57 62 68 73	32 45 50 56 61 67 72 78	48 53 59 65 71 77 83	50 57 63 69 76 82 88	35 53 60 67 73 80 87 94	57 64 71 77	60 67 75 82	38 70 79 86 94 102 110
8 9 10 11 12 13 14 15 16	21 24 26 29 82 34 37 40 42	23 26 29 32 34 37 40 43 46	24 25 28 31 35 88 41 44 47 50	25 27 81 34 37 41 44 48 51 55	29 33 37 41 44 48 52 55	32 36 40 43 47 51 55 59 63	34 38 43 47 51 56	37 41 46 50 55 60	39 44 49 53 58 63	31 42 47 52 57 62 68	32 45 50 56 61 67 72 78 84 89	48 58 59 65 71 77	50 57 63 69 76 82 88	53 60 67 73 80 87 94 100 107	57 64 71 77 85 92 99 106 113 121	87 60 67 75 82 90 97 105	62 70 79 86 94 102 110 118 126 135
8 9 10 11 12 13 14 15	21 24 26 29 32 34 37 40	23 26 29 32 34 37 40 43 46 49 52	24 25 28 31 35 88 41 44 47 50 53 57 60	27 81 24 37 41 44 48 51	29 38 37 41 44 48 52 55	32 36 40 43 47 51 55 59	34 38 43 47 51 56 60 64 68	29 37 41 46 50 55 60 64 69 73	39 44 49 53 58 63 68 78 78	31 42 47 52 57 62 68 73 78 83	32 45 50 56 61 67 72 78 84 89 95	33 -48 53 59 65 71 77 83 89 95	34 50 57 63 69 76 82 88 95 101 107 114 120	35 53 60 67 73 80 87 94 100 107 114 120 127	57 64 71 77 85 92 99 106 113 121	87 60 67 75 82 90 97 105 112 119	38 70 79 86 94 102 110 118 126

If a log is longer than given in table, unite two numbers. Thus, if it is be test, double the product of 19.

STATISTICS ON LUMBER.

Manufactures-Census of 1890.

		Manuracco	ires—cene	on Too	0.	
Es	tablis	1-			Cost of	Value of
	ments	. Capital.	Employe	s. Wages.	Material.	Products.
Mill Products						
from Logs	21,011	\$496,339,96	8 286,197	\$87,784,433	\$231,555,618	\$403,667,575
Planing Mill						
Products	3,670	120,271,44	0 86,888	48,970,080	104,926,834	183,681,552
Looking Glass						
and Picture						
Frames	1,290	8,554,99	5 9,664	5,257,553	7,069,115	16,376,173
Furniture	5 970	93 642 14	7 92 504	48 792 752	55, 125, 830	135.627.332

JOISTS, SCANTLING AND TIMBER MEASUREMENT.

Size in				Le	ength i	n Feet	t.			
Inches.	12	14	16	18	20	22	24	26	28	30
2 x 4	8	9	11	12	13	15	16	17	19	20
2 x 6	12	14	16	18	20	22	24	26	28	30
2 x 8	16	19	21	24	27	29	32	35	37	40
2 x 10	20	23	27	30	33	37	40	43	47	50
2 x 12	24	28	32	36	40	44	48	52	56	60
3 x 4	12	14	16	18	20	22	24	28	28	30
3 x 6	18	21	24	27	30	33	36	39	42	45
3 x 8	24	28	32	36	40	44	48	52	56	60
3 x 10	30	35	40	45	50	55	60	65	70	75
8 x 12	36	42	48	54	60	66	72	78	84	90
4 x 4	16	19	21	24	27	29	32	35	87	40
4 x 6	24	28	32	36	40	44	48	52	56	60
4 x 8	32	37	43	48	53	59	64	69	75	80
4 x 10	40	47	53	60	67	78	80	87	93	100
4 x 12	48	56	64	72	80	88	96	104	112	120
6 x 6	86	42	48	54	60	66	72	78	84	80
6 x 8	48	56	64	72	80	88	96	104	112	120
6 x 10	60	70	80	90	100	110	120	130	140	150
6 x 12	72	84	98	108	120	136	144	156	168	180
8 x 8	64	75	85	96	107	117	128	139	149	160
8 x 10	80	93	107	120	133	147	160	173	187	200
8 x 12	96	112	128	144	160	176	192	208	224	240
10 x 10	100	117	133	150	167	183	200	217	233	250
10 x 12	120	140	160	180	200	220	240	260	280	300
12 x 12	144	168	192	216	240	264	288	312	336	360
12 x 14	168	196	224	252	280	308	336	364	892	420
14 x 14	196	229	261	294	327	359	392	425	457	490
	1		}	1	1	}	1			3

Example: A timber 12 by 14 inches, 18 feet long, contains 252 square feet.

BOARD AND PLANK MEASUREMENT-AT SIGHT.

This table gives the sq. ft. and inches in boards from 6 to 25 in. wide, and from 8 to 55 ft. long. If a board be longer than 35 ft., unite two numbers. Thus, if a board is 40 ft. long and 16 in. wide, add 30 and 10 and you have 53 ft. 4 inches. For 2 in plank double the product.

Concession												
ng	4 in.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.	13 in.	14 in.	(15 in-
Ft.long	W.	w.	₩.	w.	w.	w.	w.	w.	w.	w.	w.	w.
Ft	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
8	2 8	3 4	4 0	4 8	5 4	6 0	6 8	7 4	8 0	8 8	9 4	10 8
9	3 0	3 9	4 6	5 3	6 0	6 9	7 6	8 3	9 0	9 9	10 6	11 2
10	3 4	4 2	5 6	5 10	6 8	7 6		9 2	10 0	10 10	11 8	12 6
12	4 0	5 0	5 6 6 0	6 5	7 4 8 0	8 3	9 2	10 1	11 0	11 11	12 10	13 9
18	4 4	5 5	6 6	7 7	8 8	9 9	10 0	11 0 11 11	12 0 13 0	13 0	14 0	15 0
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15	5 0	6 3	7 6	8 2 8 9	10 0	11 3	12 6	13 9	15 0	16 3	17 8	18 8
16 17	5 4 5 8	8 8	8 0 8 6	9 4	10 8	12 0	13 4	14 8	16 0	17 4	18 8	20 6
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19	6 4	7 11	9 6	11 1	12 8	14 3	15 0 15 10	16 6 17 5	18 0 19 0	19 6 20 7	21 0	22 6
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22 23	7 4	9 2 9 7	11 0	12 10	14 8	16 6	18 4	20 2	22 0	23 10	25 8	27 8
24	8 0	9 7	11.6 12.0	13 5 14 0	15 4 16 0	17 3 18 0	19 2 20 0	21 1	23 0	24 11	26 10	28 8
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HOW TO REDUCE LOGS TO INCH BOARD MEASURE.

Ft. long.	Diam. 10.	Diam. 11.	Diam. 12.	Diam. 13.	Diam. 14.	Diam. 15	Diam. 16.	Diam. 17.	Diam. 18.	Diam. 19.	Diam. 20.	Diam. 21.	Diam. 22.	Diam. 23.	Diam. 24.	Diam. 25.	Diam. 26.
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Ft. long.	Diam. 27.	Diam. 28	Diam. 29.	Diam. 30.	Diam. 31.	Diam. 32.	Diam. 33.	Diam. 34.	Diam. 35.	Diam. 36.	Diam. 37.	Diam. 38.	Diam. 39.	Diam. 40.	Diam. 41.	Diam. 42.	Diam. 43
10 11 12 13 14 15 17 18 19 20 21 22 23 24 25	496 530 563 596 620	684 720 756 792 828 884	703 742 782 820 860 898 938	422 465 507 549 591 633 676 718 761 803 845 930 972 1014	456 502 547 592 638 683 729 774 820 865 912 957 1004 1049	1176	1103 1156 1209 1262	562 619 675 731 787 844 900 956 1012 1069 1125 1181 61238 91295 21356	601 661 721 781 841 901 961 1021 1081 1141 6 1202 1 1261 1261 1261 1383 1383 1444	1088 1152 1216 1216 12180 134-4 1408 1472 21536	953 1022 1083 115 1223 1290 136 143 143 149 2156 3163	795 867 939 3 1011 1 1089 9 1156 7 1228 1 1372 1 1446 0 1518 7 1590	910 996 1070 1199 1225 1302 1379 1455 1530 1684 2176 41183	810 891 972 1053 1134 1215 1296 1377 1458 1539 1620 1703 1783 1186 186 194	942 1027 1113 1198 1284 1369 1453 154 1620 1711 179 179 179 179 179 188 196 4 205	994 1088 1178 11264 1354 1354 152 152 152 171 2 180 2 189 2 198 9 207	1046 1141 11237 1331 1428 14521 14166 1711 5 1806 6 1997 6 1997 6 2091 7 2187 6 2282

HOW TO USE THE LOG TABLE.

First find the average diameter of the log by adding together the two ends of the log, in inches; then divide by two, and the result will equal the average diameter, and then apply the above table.

Example.—How many feet of lumber are there in a log 15 inches at one and and 21 inches at the other, and 22 feet long?

Solution.-15+21=36; one-half of 36=18 inches, the average diameter.

Then refer to the column under 13 inches opposite to 22 and you will find the answer—289 feet.

MOW TO FIND THE DISTANCE TRAVELED IN PLOWING.

Showing the distance traveled by a horse in plowing an acre of land, and the quantity of land cultivated per day, computed at the rate of 16 and 18 miles per day of 9 hours:

Breadth of furrow slice in inches.	Miles traveled in plowing an acre.	plo	res wed day.	Breadth of furrow slice in inches.	Miles traveled in plowing an acre.	Ac plo per 18 Mi.	day.
10 11 12 13	14 1/2 11 12 11 11 12 11 11 11 11 11 11 11 11	1½ 1½ 13 14 2 2½ 2½	1½ 1½ 1½ 1¾ 1¾ 1½ 1½ 2½	14 15 16 17 18 19 29	7 6½ 01 5½ 5½ 41	2½ 2¾ 2¼ 3¼ 3¼ 3½ 3½	21/4 21/4 22 23/4 210 31/4 31/4

HOW MUCH ADVANTAGE IS GIVEN IN CHANGING THE EVENER.



Caution.—In moving the center pin of an evener one inch toward one of the end pins it changes the draft twice as much as it does to move one of the end pins one inch toward the center pin. Or in other words, moving the center pin changes the draft twice as much as changing one of the end pins or clevises.

An average evener is 42 inches in length.

Now if the center pin is moved one inch from the center to the right or left, the horse drawing on the short end will pull about x_0^p more than the horse drawing on the opposite end.

If one of the end pins is moved one inch the difference will be about 40.

Example: If a team of horses draw 2000 pounds, and the center pin is moved one inch from the center, what part of the whole load will each draw?

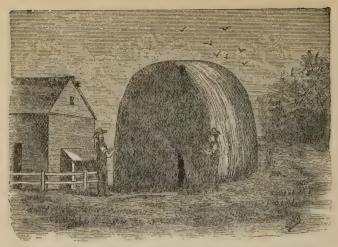
 $2000 \times \frac{2}{40} = 100$ pounds, the difference.

50-1000 = 1050 pounds. 1000-50 = 950 pounds.

Hence the horse at the short end of the evener draws 1050 lbs., and the other horse draws 950 lbs.

The draft on a 14 inch plow, plowing 4 inches deep, is about 1000 lbs.; 5 inches deep 1250 lbs.; 6 inches deep, 1500 lbs.

24 Standard.



HOW TO MEASURE HAY IN THE MOW OR STACK.

*A ton of dry hay is variously estimated from 400 to 500 cubic feet to the ton.

To be on the safe side it is best to estimate about 500 cubic teet to the top.

Hay in a Mow.

Rule.—Multiply the length in feet by the height in feet, and this by the *readth in feet, and divide the result by 500 and you have the number of tons.

Example: How many tons of hay in a mow 20 feet long, 10 feet high, and 15 feet wide?

Solution: $20 \times 10 \times 15 \div 500 = 6$, Ans.

How to Estimate the Number of Tons in a Stack.

Rule.—Multiply the length in feet by the width in feet, and this by one salf the height, and divide the product by 300.

Example: How many tons of hay in a stack 20 feet long, 12 feet high, and 15 feet wide?

Solution: $20 \times 6 \times 15 \div 300 = 6$ tons. Ans.

How to Estimate the Contents of a Round Stack.

Rule.—Multiply the square of the distance around the stack in yards by & simes the height in yards, and point off two places from the right, and this will be the number of cubic yards in the stack, which divided by 20 will equal the number of tons.

Example: How many tons of nay in a stack, distance around the bulge, 25 yards, and height, 9 yards?

Solution: $25 \times 25 = 625$, then $625 \times 36 = 22,500$, pointing off two places makes 225, then $225 \div 20 = 11 \%$ tons. Ans.

^{*}Son. authorities allow only 350 cubic feet for a ton of timothy hay when thoroughly settled. Others allow 343 to 420. For millet allow only 216 cubic feet to a ton. The fact is, hay in stack or mow can only be approximately ascertained by measurement.

Note.—No exact rule can be given for measuring hay in the bulk because of its settling more in one case than another, and the different kinds of hay vary greatly. While timothy hay requires from 400 to 500 cubic feet for a ton, common meadow hay requires from 800 to 1,000 cubic feet. The above estimates are as reliable as estimates can be made.

There were about 67,000,000 tons of hay harvested in the United

States in 1890.

HOW TO FIND THE CONTENTS OF A WAGON BOX.

A common wagon box is a little more than 10 feet long and 3 feet wide, and will hold about 2 bushels for every inch in depth,

Rule.—Multiply the depth of the wagon box in inches by 2, and you have the number of bushels.

If the wagon box is 11 feet long, multiply the depth in inches by 2, an add one-tenth of the number of bushels to itself.

Example: How many bushels of grain will a wagon box hold, 22 inches deep and 10 feet long?

Solution: $22 \times 2 = 44$. Ans.

N. B.-A bushel to the inch is calculated for corn on the cob.

HOW TO FIND THE NUMBER OF BUSHELS OF GRAIN IN A BIN OR BOX.

Rule.—Multiply the length in feet by the height to feet, and then again by the breatht in feet, and then again by 8, and cut off the right hand figure. The last result will be the number of bushels.

Example: How many bushels in a bin 12 feet long, 10 feet wide, and 6 feet high?

Solution: $12 \times 10 \times 6 \times 8 = 576.0$. Ans.

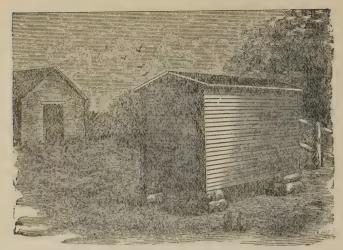
Note.—For exact results multiply the length in inches by the height in inches, and that again by the width in inches, and divide the result by 2150.4, the number of cubic inches in a bushel.

SHRINKAGE OF GRAIN.

In deciding to keep their grain farmers should take into account the shrinkage. Wheat will shrink two quarts to the bushel in six months from the time it is threshed. Corn shrinks much more, the shrinkage being nearly one fifth of the whole amount. So that for corn forty cents from the field is as much as fifty cents in March. In the case of potatoes, the loss from October to May is about thirty-three per cent.

BUSHELS.

The dimensions of the bushel are 18½ inches inner diameter; 19½ inches outer diameter, and 8 inches deep; and when heaped the cone is not to be less than 6 inches high, which makes a heaped bushel equal to 1½ struck ones.



HOW TO MEASURE EAR CORN IN THE CRIB.

Measuring corn in the crib is at best an estimate. Much depends upon the condition of the corn. A bushel of corn means either a bushel of shelled corn or ear corn enough to make a bushel f shelled corn.

Rule.—Multiply the length in feet by the height in feet and that again by the width in feet, multiply the result by 4 nd cut off the right hand figure and you have the contents in bushels of shelled corn. Example: How many bushels of shelled corn in a crib of corn in the ear.

20 feet long, 10 feet high and 8 feet wide?

Solution: $20 \times 10 \times 8 \times 4 = 640.0$ bushels. Ans. This is the result when 21/2 cubic feet or 4320 cubic inches are taken for a

uE	mer.															
lou	inting	4200	cubic	inches	in a	bushel	multiply	by	 	 	 	 	 	٠.		411
	64	4100	6.6	46	66	66	44 -									
	86	4000	46	4.9	6.6	46	66	6.6		 	 	 	 			432
	46	3900	66	44	66	66	8-6	4.6		 	 					418
	\$4	3800	66	46	44	66	66	6.6					 			455

In each of these cases cut off the three right hand figures after multiplying. The result will be the number of bushels. There is often a disagreement in measuring ear corn in the crib. As will be seen from the above, the differences result from taking a different number of cubic inches to the bushel.

Here is another very simple rule:

Multiply the cubic feet by 4 and divide the product by 9.

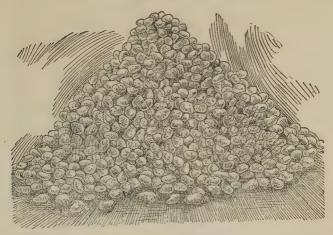
Example: A crib of corn is 15 feet long, 8 feet wide and 9 feet high. How many bushels of corn does it contain?

Solution: 15×8×9=1680×4=4520+9=480 bushels.

This allows 2½ cubic feet, or about 3900 cubic inches for a bushel.

This rule is not only very simple but is very frequently used. It will hold out in good dry corn.

When the crib is flared at the side multiply half the sum of the top and bottom widths in feet by the perpendicular height in feet, and then again by the length in feet. This gives the number of cubic feet. Then proceed as MOUVE



HOW TO ESTIMATE THE CONTENTS OF A PILE OF GRAIN, POTATOES, ETC.

Rule.—Put the commodity in the form of a heap. Then multiply the diameter in feet by itself, and then again by the height in feet, and divide the result by 4, and you have the approximate contents in bushels.

Example: How many bushels in a heap of grain 6 feet in diameter and 3 feet high?

Solution: $6 \times 6 \times 3 \div 4 = 27$ bushels. Ans.

HOW TO FIGURE UP A LOAD OF GRAIN.

Rule.—Find the total number of pounds and divide that by the examber of pounds in one bushel and it will equal the number of pushels.

Example: How many bushels in 2840 pounds of wheat, and what will it cost at 90 cents per bushel?

Solution: $2840 \div 60 = 47$ bushels and 20 pounds or $47\frac{1}{3}$ bushels. $47\frac{1}{3} \times 90c. = 42.60 . Ans.

HOW TO USE THE GRAIN TABLE.

The heavy type column represents the weight of the load, and the number of bushels and pounds are at the right under the kind of grain.

Example: How many bushels of oats in 2490 pounds? Answer: 77 bushels and 26 pounds.

OF GRAIN AT SIGHT.

Name and Address of the Owner, where the Owner, which was the Owner, where the Owner, which was the Owner, which we obtain the Owner, which was the Owner, which we obtain the Owner, which was the Owner, which we obtain the O																	- OC.
Weig't.	Oa 82 1	ts. lbs.		rya. bs.	Bar 48	ley. lbs.	Wh 60	eat. lbs.	Weig't.		its. lbs.		rye. lbs.	Bar 48 J	ley.	Wh 60	eat.
### ### ### ### ### ### ### ### ### ##	82 1 Bus 46 477 477 477 478 488 489 499 500 550 551 552 553 554 555 555 556 557 577 578 578 579 579 579 579 579 579 579 579	Lbs 28 28 26 16 16 26 26 12 22 20 30 30 30 30 30 30 30 30 30 30 30 30 30	Bus 26 26 27 27 27 27 27 27 27 27 27 28 28 28 28 29 29 30 30 30 30 30 31 31 31 31 32 32 32 32 32 32 33 33 33 34 34 34 34 34 34 34 34 34 34	Lbs 44 44 54 88 88 48 90 22 22 42 42 52 66 61 60 00 40 14 24 44 44 68 18 88 88 02 12 22 82 66 66 66 60 60 60 60 60 60 60 60 60 60	48 1	Lbs. 12 22 22 22 42 24 24 44 44 44 44 44 44 44	60 Bus 25 25 25 25 25 25 25 26 26 26 26 26 26 27 27 27 27 27 27 27 27 28 28 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Lbs. Lbs 00 10 20 30 40 50 60 60 60 60 60 60 60 60 60 60 60 60 60	Weight Color Col	Bus 62 63 63 63 64 64 65 65 66 66 67 67 68 68 69 69 70 70 71 71 72 72 72 73 73 73 74 74 77 77 77 77 77 77 77 77 77 77 77	Lbs. Lbs. 26 04 14 24 22 00 30 30 81 88 26 04 14 24 24 22 22 20 00 88 18 28 86 66 64 14 14 14 12 22 22 00 08 88 88 86 66 04 16 66 06 06 06 07 08 08 08 08 08 08 08 08 08 08 08 08 08	56 Bus 85 86 86 86 87 87 87 87 88 88 88 88 88 88 88 88 88	Lbs 50 04 14 24 44 44 45 83 84 80 22 22 22 22 22 22 22 22 22 22 22 22 22		Lbs. 42 04 14 24 44 44 46 66 66 68 18 00 40 22 32 42 42 44 44 46 66 66 68 18 38 80 10 00 12 22 22 42 42 42 42 44 44 44 44 44 44 44	80 Bus 33 33 33 33 33 33 33 33 33 33 33 33 33	Lbs. Lbs. 30 50 60 60 60 60 60 60 60 60 60 60 60 60 60
		16	35	40	41	32	33	20	2510	78	14	44	46	52	14	41	50

The census of 1890 gives in round numbers the following figures in bushels for productions of that year: Irish potatoes, 217½ millions; sweet potatoes, 44 millions; apples, 143 millions; cherries, 1½ millions; peaches, 86½ millions; pears, 5 millions, plums and prunes, 2½ millions,

HOW TO FIND THE NUMBER OF BUSHELS IN A LOAD OF GRAIN AT SIGHT.

Weig't.	Oa 32]	ts.	Corn, 56 l		Bar 48 l	ley. bs.	Wh 60 1	eat. bs.	Weig't.	Oa 32 1		Cern, 56 1		Bar 48 l	ley. bs.		eat:
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The census of 1890 gives, in round numbers, the following as the productions of the cereals forthat year: Corn. 2.122 million bushels: cats, 809 million bushels, wheat 609 million bushels; and barley 78 million bushels.

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HOW TO FIND THE COST OF COAL, HAY, ETC., AT SIGHT. Cost per Pound or Ton.

-									-						_		_		-					~~~		
No.	¢ 25	¢ 50	¢ 75	\$ ¢	\$ 20	¢	\$	¢	\$ 4 (\$ 5	¢	\$ 6	¢	\$ 7	¢	\$ 8	¢	8	¢	\$ 10	¢	8 11	¢	\$ 12	Ç 60
3 7 10 20 30 30 40 50 50 60 00 200 200 200 200 200 1100 11200 11200 11200 11200 11200 11200 11200 11200 11200 1500 1700 1500 1700 1500 1700 1500 1700 1500 1700 1500 1700 1500 15	1 60	11 11 12 22 23 35 5 8 100 133 155 188 200 223 225 286 387 400 488 497 487 487 487 487 487 487 487 487 487 48	1 50°: 2 25°: 3 00°:	11 12 22 38 84 44 55 10 10 15 20 25 30 40 45 50 65 65 60 65 65 60 65 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	111234680	1112345678991020000000000000000000000000000000000	111111111111111111111111111111111111111	00 1	1111222233334800	60 60 00 00 00 1	1111222223333444450	123 5 8 10 13 15 18 15 18 22 25 50 75 00 25 50 75 00 00 00 00 00 00 00 00 00 00 00 00 00	3333444555562884		11122233344455566674218		11222334445566677816432	13 4 8 12 16 20 24 28 32 36 40 00 00 40 80 20 60 60 40 80 20 60 00 40 80 20 60 00 00 00 00 00 00 00 00 00 00 00 00	112223344455667788918736	135 59 14 1823 270 356 41 45 905 505 505 605 505 605 605 605 605 605 6	112223344455667788999120340	24 45 100 15 200 25 30 45 50 60 50 60 50 60 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60	4456677888991011223344		112333445660778990101124368	24 6 12 13 24 48 54 6 60 20 80 40 00 60 60 20 80 40 00 60 60 60 60 60 60 60 60 60 60 60 60

Example: What is the cost of 1800 pounds of coal at \$4.50 per ton?

Solution: 1300 lbs. @\$4.00 = \$2.60 lbs. @ 50c = .33

\$2.93 Ans.

Example: What is the cost of 1740 pounds of hay at \$8.00 per ton? Solution: $1740\times8+2=\$8.96$ Ans.

PRODUCTION OF COAL, IRON, GOLD, ETC., FOR 1907. TAKEN FROM THE U. S. CENSUS REPORT.

Anthracite coal 76,432,421 Bituminous coal 394,759,112	**	Petroleum		
Pig Iron. 25,781,361	44	Salt	29,704,128	barrels
Cold 4.374.827	ounces	Silver		
Conner 865,994.471	pounds	Zinc		
Cement 53,230,343	Darreis	Lead	365,166	
Aluminum 17,211,039	pounds	Mineral Waters	52,060,520	gallons

WAGES IN THE UNITED STATES FROM CENSUS

Agricultural Implements. Bicycles Book Making Boots and Shoes. Buttons Carpets Clothing Iron and Steel Jewelry Liquors Printing Tobacco and Cigars.	2,231 13,815 184,275 4,036 31,213 353,463 193,558 16,799 41,525 166,093	Wages. \$ 21,811,761 1,267,411 6,903,951 92,919,349 1,673,876 12,443,631 153,576,095 104,477,194 10,887,967 31,678,166 105,569,181 64,792,006	Cost of Materials. \$ 31,603,265 786 180 6,007,417 146,801,968 1,551,603 29,582,138 237,096,809 356,279,162 16,593,660 80,230,532 69,426,553 92,304,317	Value of Products. \$12,771,651 2,970,035 17,067,780 230,215,185 4,216,795 49,996,373 503,258,566 524,592,775 36,215,511 189,775,639 276,911,949 211,746,623
Tobacco and Cigars			52,502,02.	



THE LABORER'S GREETING AT EVENING.

HOW TO USE THE WAGES TABLE.

EXAMPLE:

Find t	the amount	t due for	7 months,	19 days, a	it \$19.00 a month.
					\$133.00
For 1	9 days				
T	otal amour	at	****		\$146.88

Find the amount due for 1 year, 8 months and 3 days, at \$26.00 a month.

For 1 year @ \$26.00 per month	.\$312.00
For 8 months @ \$26.00 per month	. 208.00
For 3 days @ \$26.00 per month	3.00
Total amount	.\$523.00

To	find	the	wages	at	\$2.00,	take	it for	\$ 1.00, 12.00.	and	multiply divide	by	2.
66	45	66	63	68	5.00	66	66	10.00,	64	atatae	86	2.
86	46	46	1603	20	6.00,	86	46	12.00, 16.00.	06	64	56	2.
86	66	68	84	6.6	0.00	9.5	66	10.00	64	66	-86	8

MONTHLY WAGES TABLE.*

HOW TO CALCULATE THE WAGES OF HIRED HELP AT SIGHT.

-				1							· · · · · ·	
Mimo.	\$1	\$3	\$7	\$10	\$11	\$12	\$13	\$14	\$15	\$16	\$17	\$18
1	.04	.12	.27	.38	.42	.46	.50	.54	.58	.62	.65	.69
2	.08	.23	.54	.77	.85	.92	1.00		1.15	1.23		1.88
3	.12	.35	.81	1.15	1.27	1.38	1.50	1.62	1.73	1.85	1.96	2.08
4	.15	.46	1.08	1.54	1.69	1.85	2.00	2.15	2.31	2.46	2.62	2.77
5	.19	.58	1.35		2.12	2.31	2.50	2.69	2.88	3.08	8.27	3.48
6	.23	.69	1.62	2.31	2.54	2.77	3.00	3.23	3.46	3.69	3.92	4.15
7 8	.27	.81	1.88	2.69	2.96	3.23	3.50		4.04	4.31	4.58	4.85
8	.31	.92	2.15	3.08	3.38	3.69	4.00	4.31	4.62	4.92	5.23	5.54
9	35	1.04	2.42	3.46	3.81	4.15	4.50	4.85	5.19	5.54	5.88	6.23
10	38	1.15	2.69	3.85	4.23	4.62	5.00	5.38	5.77	6.15	6.54	6.92
11	.42	1.27	2.96	4.23	4.65	5.08	5.50	5.92	6.35	6.77	7.19	7.63
12	.46	1.38	3.23	4.62	5.08		6.00	6.46	6.92	7.38	7.85	8.31
13	.50	1.50	3.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
14	.54	1.62	3.77	5.38	5.92	6.46	7.00	7.54	8.08	8.62	9.15	9.69
15	.58	1.73	4.04	5.77	6.35	6.92	7.50	8.08	8.65	9.23	9.81	10.38
16	62	1.85	4.31	6.15	6.77	7.38	8.00	8.62	9.23	9.85	10.46	11.08
17	65	1.96	4.58	6.54	7.19	7.85	8.50	9.15	9.81	10.46	11.12	11.77
18	69	2.08	4.85	6.92	7.62	8.31	9.00	9.69	10.38	11.08	11.77	12.48
19	.73	2.19	5.12	7.31	8.04	8.77	9.50	10.23	10.96	11.69	12.42	13.15
20	.77	2.31	5.38	7.69	8.46	9.23	10.00	10.77	11.54	12.31	13.08	13.85
21	.81	2.42	5.65	8.08	8.88	9.69	10.50	11.31	12.12	12.92	13.73	14.54
22	.85	2.54	5.92	8.46	9.31	10.15	11.00	11.85	12.69	13.54	14.38	15.23
23	. 88	2.65	6.19	8.85	9.73	10.62	11.50	12.38	13.27	14.15	15.04	15.92
24	.92	2.77	6.46	9.23	10.15	11.08	12.00	12.92	13.85	14.77	15.89	16.62
25	,96	2.88	6.73	9.62	10.58	11.54	12.50	13.46	14.42	15.38	16.35	17.31
lmo	1.00	3.00	7.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00
2	2.00	6.00	14.00	20,00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	86.00
3	3.00	9.00	21.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
4	4.00	12.00	28.00	40.00	44.00	48.00	52.00	56.00	60.00	64.00	68.00	72.00
5	5.00	15.00	35.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00
6	6.00	18.00	42.00	60.00	66.00	72.00	78.00	84.00	90.00	96.00		108.00
7 8	7.00	21.00	49.00	70.00	77.00	84.00	91.00		105.00		119.00	
	8.00	24.00	56.00	80.00	88.00	96.00	104.00				136.00	
9	9.00	27.00	63.00	90.00				126.00	135.00	144.00	153.00	162.00
10	10.00	30.00		100.C0			130.00				170.00	
11	11.00	33.00	77.00	110.00	121.00	132.00	143.00	154.00	165.00	176.00	187.00	198.00
1 yr	12.00	36.00	84.00	120.00	132.00	144.00	156.00	168.00	180.00	192.00	204.00	216.00
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*26 working days in a month.

FAMILIES, DWELLINGS AND OWNERSHIP OF HOMES.

According to the census of 1900 there were in the United States a total of 16,239,797 families and 11,474,777 dwellings. The total number of homes of private families was 16,006,437. Of these homes 7,218,755 were owned by the occupants and the rest were rented.

MONTHLY WAGES TABLE.*

HOW TO CALCULATE THE WAGES OF HIRED HELP AT SIGHT.

Time	\$19	\$20	\$21	\$22	\$23	\$24	\$25	\$26	\$27	\$28	\$29
	.78	-77	.81	.85	.88	.92	.96	1.00	1.04	1.08	1.18
$\frac{1}{2}$	1.46	1.54	1.62	1.69	1.77	1.85	1.92	2.00	2.08	2.15	2.23
3	2.19	2 31	2.42	2.54	2.65	2.77	2.88	8.00	3.12	8.23	8.35
4	2.92	3.08	8.23	8.38	3.54	3.69	\$.85	4.00	4.15	4.81	4.46
5	3.65	3.85	4.04	4.23	4.42	4.62	4_81	5.00	5.19	5.38	5.58
6	4.38	4.62	4.85	5.08	5.31	5.54	5.77	6.00	6.23	6.46	6.69
7	5.12	5.38	5.65	5.92	6.19	6.46	6.73	7.00	7.27	7.54	7.81
8	5.85	6.15	6.46	6.77	7.08	7.38	7.69	8.00	8.31	8.62	8.92
9	6.58	6.92	7.27	7.62	7.96	8.31	8.65	9.00	9.35	9.69	10.04
10	7.31	7.69	8.08	8.46	8.85	9.23	9.62	10.00	10.38	10.77	11.15
11	8.04	8.46	8.83	9.31	9.73	10.15	10.58	11.00	11.42	11.85	12.27
12	8.77	9.23	9.69	10.15	10.62	11.08	11.54	12.00	12.46	12.92	13.38
13	9.50	10.00	10.50	11.00	11.50	12.60	12.50	13.00	13.50	14-00	14.50
14	10.23	10.77	11.31	11.85	12.38	12.92	13.46	14.00	14.54	15.08	15.62
15	10.90	11.54	12.12	12.69	13.27	13.85	14.42	15.00	15.58	16.15	16.73
16	11.69	12.31	12.92	13.54	14.15	14.77	15.38	16.00	16.62	17.23	17.85
17	12.42	13.08	13.73	14.38	15.04	15.69	16.35	17.00	17.65	18.31	18.98
18	13.15	13.85	14.54	15.23	15.92	16.62	17.31	18.00	18.69	19.38	20.08
19	13.88	14.62	15.35	16.08	16.81	17.54	18.27	19.00	19.73	20.46	21.18
20	14.62	15.38	16.15	16.92	17.69	18.46	19.23	20.00	20.77	21.54	22.31
21	15.35	16.15	16.96	17.77	18.58	19.38	20.19	21.00	21.81	22.62	28.42
22	16.08	16.92	17.77	18.62	19.46	20.31	21.15	22.00	22.85	1	24.54
23	16.81	17.69	18.57	19.46	20.35	21.23	22.12	23.00	23.88	24.77	25.69
24	17.54	18.46	19.38	20.31	21.28	22.15	23.08	24.00	24.92	25.85	28.73
25	18.27	19.23	20.19	21.15	22.12	23.08	24.04	25.00	25.98	28.92	27.88
1 Mo.	19.00	20.00	21.00	22.00	23.00	21.00	-	26.00	27.00	28.00	29.00
2	38.00	40.00	42.00	44.00	46.00	48.00		52.00	-	-	58.00
3	57.00	60.00	63.00	66.00		72.00		78.00			87.00
4	76.00	80.00	84.00	88.00	1		100.00		108.00		116.00
5	95.00		105.00	110.00				1		140.00	
6	114.00	120.00	128.00	132.00						168.00	
	133.00	140.00	147.00	154.00						195.00	
8	152.09	160.00	168.00							224.00	
	171.00	180.00	189.00							252.00	
20	190.00	200.00	210.00								290.00
11 1 Yr.	228.00	220.00	281.00								319.00
Z Z L.	220.00	299.00	252.00	202.00	276.00	253.00	1300.00	312.00	324.60	336.00	348.60

*26 working days in a month.

OFFICIAL FIGURES.—The average visekly wages of workmen in the United States for the year 1891 is as follows: Plumbers, \$19.00; Carpenters, \$15.25; Gaastiters, \$11.90; Blacksmiths, \$18.42; Cigarmakes. 213.02; Printers, \$18.42; Tinsmiths, \$14.55; Porters, \$3.88.

MONTHLY WAGES TABLE.*

HOW TO CALCULATE THE WAGES OF HIRED HELP AT SIGHT.

rime	\$30	\$31	\$32	\$33	\$34	\$35	\$36	\$37	\$38	\$39	\$40
1	1.15	1.19	1.23	1.27	1.31	1.35	1.38	1.42	1.46	1.50	1.54
2	2.31	2.38	2.46	2.54	2.62	2.69	2.77	2.85	2.92	3.00	3.08
3	3.46	3.58	3.69	3.81	3.92	4.04	4:15	4.27	4.38	4.50	4.62
4	4.62	4.77	4.92	5.08	5.23	5.38	5.54	5.69	5.85	6.00	6.15
5	5.77	5.96	6.15	6.35		6.73	6.92	7.12	7.31	7.50	7.69
6	6.92	7.15	7.38	7.62		8.08	8.31	8.54	8.77	9.00	9.23
7	8.08	8.35	8.62	8.88	[9.42	9.69	9.96	10.23	10.50	10.77
8	9.23	9.54	9.85	10.15	10.46	10.77	11.08	11.38	11.69	12.00	12.31
9	10.38	10.73	11.08	11.42	11.77	12.12	12.46	12.81	13.15	13.50	13.85
10	11.54	11.92	12.31	12.69	13.08	13.46	13.85	14.23	14.62	15.00	15.38
11	12.69	13.12	13.54	13.96	14.38	14.81	15.23	15 65	16.08	16.50	16.92
12	13.85	14.31	14.77	15.23	15.69	16.15	16.62	17.08	17.54	18.00	18.46
13	1 5.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00
14	16.15	16.69	17.23	17.77	18.31	1 8.85	19.38	19.92	20.46	21.00	21.54
15	17.31	17.88	18.46	19.04	19.62	20.19	20.77	21.35	21.92	24.50	23.07
16	18.46	19.08	19.69	20.31	20.92	21.54	22.15	22.77	23.38	24.00	24.62
17	19.62	20.27	20.92	21.58	22.23	22.88	23.54	24.19	24.85	25.50	26.15
18	20.77	21.48	22.15	22.85	23.54	24.23	24.92	25.62	26.31	27.00	27.69
19	21.92	22.65	23.38	24.12	24.85	25.58	26.31	27.04	27.77	28.50	29.23
20	23.08	23.85	24.62	25.38	26.15	26.92	27.69	28.46	29.23	30.00	30.77
21	24.23	25.04	25.85	26.65	27.46	28.27	29.08	29.88	30.69	31.50	32.31
22	25.38	26 23	27.08	27.92	28.77	29.62	30.46	31.31	32.15	33.00	33.85
23	26.54	27.42	28.31	29.19	30.08	30.96	31.85	32.73	33.62	34.50	35.38
24	27.69	28.62	29.54	30.46	31.38	32.31	33.23	34.15	35.08	36.00	36.92
25	28.85	29.81	30.77	31.73	32.69	33.65	34.62	35.58	36.54	37.50	38.46
I Mo.	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	89.00	40.00
2	60.00	62.00	64.00	66.00	68.00	70.00	72.00	74.00	76.00	78.00	80.00
3	90.00	93.00	96.00	99.00	102.00	105.00	108.00	111.00	114.00	117.00	120.00
4	120.00	124.00	128.00	182.00	136.00	140.00	144.00	148.00	152.00	156.00	160.00
6	150.00	155.00	160.00	165.00	170.00	175.00	180.00	185.00	190.00	195.00	200.00
6	180.00	186.00	192.00	198.00	204.00	210.00	216.00	222.00	228.00	234.00	240.00
7	210.00	217.00	224.00	231.00	238.00	245.00	252.00	259.00	266.00	273 00	280.00
8	240.00	248.00	256.00	264.00	272.00	280.00	288.00	296.00	304.00	312.00	320.00
9	270.00	279.00	288.00	297.00	306.00	315.00	324.00	333.00	342.00	351.00	360.00
10	300.00	310.00	320.00	330.00	340.00	350.00	360.00	370.00	380.00	390.00	400.00
11	330.00	341.00	352.00	363.00		385.00		407.00	418.00	429.00	440.00
B Yr.	360.00	372.00	384.00	396.00	408.00	420.00	432.00	444.00	456.00	468.00	480.00

*28 working days in a month.

Compare the following figures with those on previous pages, the average weekly wages being given in each case:

Bricklayers. Masons. Carpenters. Blacksmiths. Hodcarriers. Porters. 4.70 Angland, \$7.56 7.68 7.66 7.37 4.94 3.11 4.11 4.00 2.92 4.87

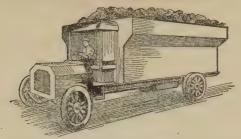
TABLE OF WAGES BY THE WEEK, GIVEN BY THE DAY AND HOUR.

	\$18	15	30	90	96	1.20	1.50	1.80	2.10	2.40	2.70	3.00	00.9	00.0	12.00	15.00	18.00
1	\$17	148	28%	26%	85	1.13%	1.41%	1.70	1.98%	2.26%	2.55	2.831/3	5.66%	8.50	11.33%	14.18%	17.00
	\$16	131/3	26 %	531/3	8	1.06%	1.83%	1.60	1,86%	$2.13\frac{1}{2}$	2.40	2.66%	5.331/6	8.00	10.66%	13.83%	16.00
	515											2 50					
	\$14	11%	233	46%	20	93%	1.18%	1.40	1.633	1.86%	2.10	2.331/3	4.66%	2.00	9.33%	11.66%	14.00
	613	108	213%	43%	65	%93	1.081/5	1.30	1.51%	1.733	1.95	2.16%	4.831/3	6.50	8.66%	10.831/8	13.00
	69	101	20	40	9	8	1.8	1.20	1.40	1.60	1.80	2.00	4.00	6.00	8.00	10.00	12.00
	\$111											1.83%					
	\$10											1.66%					
	60	71/2	15	30	45	09	75	06	1.05	1.20	1.85	1.50	3.00	4.50	6.00	7.50	9.00
	∞ €9	89	183%	263%	40	533%	66%	8	93%	1.06%	1.20	1.33%	2.66%	00.1	5.333%	3.66%	3.00
	60	TC3	11%	231/3	85	46%	583%	70	81%	931/3	1.05	1.16%	2.331/3	3.50	4.66%	5.83%	7.00
-	9	10	10	20	80	40	50	09	70	8	98	1.3	2.00	3.00	4.00	5.00	6.00
	66	44	83%	16%	25	33%	41%	20	581/3	66%	75	837%	1.66%	3.50	3.33%	.16%	80.9
	40	87%	8%9	133	20	26%	8375	40	46%	53%	09	66%	1.331/3	2.00	2.66%	3.331/3	4.00
	69 69	21%	2	10	15	20	25	30	85	40	4.5	50	1.00	1.50	2.00	2.50	3.00
	67	1%	373	69%	10	131/3	16%	_20	231/3	2633	30	831/3	7699	1.00	1.331/3	1.66%	2.00
	59		1%	37%	2	6 %	878	19	11%	131/2	15	16%	33 1/3	50	899	837%	1.00
No. of Lot of Lo		1% hr.	1 hr.	2 hrs.	8 hrs.	4 hre.	5 hrs.	6 hrs.	7 hrs.	8 hrs.	9 hrs.	1 day.	2 ds.	3 ds.	4 ds.	5 da.	6 ds.

EXAMPLE: What will the wages for 4 days and 7 hours amount to at \$9.00 per week 1 Ans., \$7.05.

Thus, 8 days and 6 hours at \$11.00 a week, working 9 hours a day, will amount to \$1.65×8=\$13.20+\$1.10, amount for 6 hours=\$14.80, The above table is based on 10 hours a day. To find the amount for any number of days, 8 or 9 hours a day, multiply the number opposite 8 hours or 9 hours, as the case may be, by the number of days.

Eight days and 6 hours at \$11.00 a week, working 8 hours a day, will amount to \$1.46% × 8 = \$11.73 + \$1.10, amouns for 6 hours == \$12.98



How to Calculate the WEIGHT of Coal in a Bin or Box.

A solid cubic foot of anthracite coal weighs about 93 pounds. When broken for use it weighs about 54 pounds. Bituminous coal when broken up for use weighs about 50 pounds.

Rule.—Multiply the length in feet by the height in feet, and again by the breadth in feet, and this result by 54 for anthracite coal, or by 50 for bituminous coal, and the result will equal the number of pounds.

To find the number of tons, divide by 2,000.

Example: A coal bin is ten feet long, 8 feet wide, and 5 feet high. How many tons of anthracite coal will it hold?

Solution: $10\times8\times5\times54=21,600$. $21,600 \div 2,000=10$ tons and

1,600 pounds.

Amount of Charcoal in a Bin.

Multiply length, breadth, and height (all in inches) together. and divide by 2571, the number of cubic inches in a bushel of charcoal.

How to Find the Number of Cords in a Pile of Wood.

A cord of wood is a pile 8 feet long, 4 feet, wide and 4 feet high and contains 128 cubic feet.

Rule .- Multiply the length in feet by the width in feet and that result by the height in feet and divide the product by 128 and you have the number of cords.

Example: How many cords in a pile of wood 4 feet wide, 7 feet high, 24 feet long. Solution; $4\times7\times24=672$ cubic feet. 672+128=5% cords. Ans.

A cord of wood contains 128 cubic feet when the wood is cut 4 feet long. It is an error to suppose that a cord should always contain 128 cubic feet, as, for instance, cooking stove wood is seldom over 20 inches in width when corded, but the width is counted the same as if it was four feet. As for instance in the following example:

Rule.—Multiply the length of the pile by the height, and divide

bv 32.

Example:-How many cords are contained in a pile of stove wood 17 feet long, 6 feet high and 19 inches in width?

Solution: 17 length X 6 height=102; 102÷32=318 cords.

-Ans.

HOW TO FIND THE WEIGHT OF CATTLE BY MEASURES

To find the approximate weight, measure as follows: 1. The girth behind the shoulders. 2. The length from the fore-part of the shoulder-blade along the back to the bone at the tail, in a vertical line with the buttocks. Then multiply the square of the girth in feet by five times the length in feet. Divide the product by 1.5 for average cattle (if cattle be very fat, by 1.425; if very lean, by 1.575) and the quotient will be the dressed weight of the quarters. Thus: The girth of a steer is 6.5 feet, and the length from the shoulder-blade to the tail bone is 5.25. The square of 6.5 is 42.25, and 5 times 5.25 is 26.25. Multiplying these together gives 1109.0625, which, when divided by 1.5, produces 739.375 lbs. the approximate net weight of the steer after being dressed.

THE SHORT METHOD.

Multiply the distance around the animal (back of the fore-shoulder) by itself, and then multiply that result by 17.5 and you have the weight of the animal (nearly.)

WEIGHT OF HOGS.

What will be the cost of 3345 pounds of live hogs, at \$3.25 per hundred weight?—See table, next page.

3300 @ 3.25=107.25. 45 @ 3.25= 1.46.

108.71. Ans.

WEIGHT OF CATTLE.

What will 2235 pounds of live cattle cost, at \$2.85 per hundred weight?

2200 @ \$2,50=\$55,00. 55 @ 2,50= 1.38. 2200 @ 15c. 3.30. 55 @ 15c. .08.

\$59.76. Ans.

What will 5625 pounds of live cattle cost at \$3.45 per hundred weight?

4000 @ \$3.25 = \$130.00 1600 @ 3.25 = 52.00 25 @ 3.25 = .81 4000 @ .20 = 8.00 1600 @ .20 = 3.20 25 @ .20 = .05

\$194.06

N. B.—In above example get the amount first from table for the 2200 pounds at \$2.50, then for 55 pounds. Now you have the amount at \$2.50 per hundred weight. To make it \$2.65, take from the table the amount of 2255 at 15c. per hundred weight, and you will have the amount for all at \$2.65 per cwt.

HOG AND CATTLE TABLE.

The first column gives the number of pounds, and the top of each column the price per hundred weight.

WEIGHT.	5c.	10c.	15c.	20c.	3 0c.	40c.	50c.	60c.	70c.	80c.	90c.
3	.00	.00	.00	.01	.01	.01	.02	.02	.02	.02	.02
<u>.</u> б	.00	.01	.01	.01	.02	.02	.03	.03	.04	.04	30. 20.
10 15	.01	.01	.02	.03	.05	.08	.08	.09	.11	.12	.14
20	.01	.02	.03	.04	.06	.08	.10	.12	.14	.16	.18
25	.01	.03	.04	.05	.08	.10	.13	.15	.18	.20	.22
30	.02	.03	.05	.06	.09	.12	.15	.18	.21	.24	.27
35	.02	.04	.05	.07	.11	.14	.18	.21	.28	.28 .32	.32
40 45	.02	.05	.07	.09	.14	.18	.23	.27	.32	.36	.41
50	.03	.05	.08	.10	.15	.20	.25	.30	.35	.40	.45
55	.03	.06		.11	.17	.22	.28	.33	.39	.44	.50
60	.03	.06	.09	.12	.18 .20	.24	.30 .33	.36	.42	.48	.54
6 5	.03	.07		.14	.21	28	.35	.42	.49	.56	.63
75	.04	.08		.15	.23	.30	.38	.45	.53	.60	.68
80	.04	.08			.24	.82	.40	.48	.56	.64	.72
85	.04	.09			.26	.34	.43	.51 .54	.60	.68	81
90 95	.05		:14		.29	.38		.57	.67	.76	.86
300	.05	.10	.15	.20	.30	.40	.50	.60	.70	.80	.90
200	.10	.20	.30	.40	.60		1.00 1.50	1.20 1.80	1.40 2.10	$\frac{1.60}{2.40}$	1.80 2.70
300	.15	.30	.45		.90 1.20			2.40	2.80	3.20	8.60
400 5 00	.25			1.00	1.50	2.00	2.50	3.00	8.50	4.00	4.50
600	30	.60	.90	1.20	1.80					4.80	5.40
700	.35	.70	1.05		2.10			4.20 4.80		$\frac{5.60}{6.40}$	
800	-40				2.40			5.40		7.20	
900 1000	.45				3.00		5.00	6.00	7.00	8.00	9.00
1100	.55	1.10	1.65	2.20	3.30	4.40				8.80	9.90
1200	.60				3.60				8.40 9.10	9.60 10.40	
1300	.65				3.90 4.20					11.20	
1400 · · · · · · · · · · · · · · · · · ·	75			3.00	4.50		7.50	9.00	10.50	12.00	13.50
1600	.80	1.60	2.40		4.80		8.00			12.80	
1700	.85				5.10					13.60 14.40	
1800 · · · · · 1900 · · · · ·	.90									15.20	
2000	1.00					8.00	10.00	12.00	14.00	16.00	
2100	1.05	2.10	3.15		6.30					16.80	
2200	1.10										
2300 · · · · · 2400 · · · · ·	1.15									19.20	21.60
2500					7.50	10.00	12.50	15.00			
2600	1.30) ` 6(3.90								
2700	1.3			$\begin{bmatrix} 5.40 \\ 5.60 \end{bmatrix}$		10.80					
2800 · · · · · 2900 · · · · ·	1.40									23.20	26.10
3000				6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00
\$100	1.55	3.10									
3 200	1.60		4.80								
3300								20.40	23.86	27.20	30.60
3400 · · · · · 3500 · · · · ·	1.7			7.00	10.50	14.00	17.50	21.00	24.50	28.00	
3600	1.80	3.60	5.4								32.40
\$700	1.8										
3800	1.96 1.98								27.30	31.20	35.10
8900									23.00	32.00	1 36.00
0											

HOG AND CATTLE TABLE.

The first column gives the number of pounds and the top column the price per hundred weight.

Weight.	\$1.00	\$2.00	\$2.50	\$2.75	\$3.00	\$3.25	\$3.50	\$3.75	\$4.00	\$4.25	\$4.50
3	.03	.06	.08	.08	.09	.10	.11	.11	.12	.13	.14
B	.05	.10	.13	.14	.15	.16	.18	.19	.20	.21	.23
10	.10	.20	.25	.28	.30	.33	.53	.38	.40	.61	.45
15 20	.15 .20	.30	.38	.41	.45	.65	.70	.75	.80	.85	90
35	.25	.50	.63	.69	.75	.81	.88	.94	1.00	1.06	1.13
30	.80	.60	.75	.83	.90	.98	1.05	1.13	1.20	1.28	1.35
35	.85	.70	.88	.96	1.05	1.14	1.23	1.31	1.40	1.49	1.58
40	.40	.80	1.00	1.10 1.24	1.20 1.35	1.30 1.46	1.40 1.58	1.50 1.69	1.60 1.80	1.70 1.91	1.80
50	.50	,90 1.00	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13	2.25
55	.55	1 10	1.58	1.51	1.65	1.79	1.93	2.06	2.20	2.34	2.48
60	.60	1.20	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70
65	.65	1.30	1.63	1.79	1.95	2.11	2.28 2.45	2.44 2.63	2.60 2.80	2.76	2.98
70 75	.70 .75	1.40 1.50	1.75	1.93 2.06	$\frac{2.10}{2.25}$	2.28 2.44	2.63	2.81	3.00	2.98 3.19	3.15
80	.80	1.60	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
85	.85	1.70	2.13	2.34	2.55	2.76	2.98	3.19	3.40	3.61	3.83
90	(-40)	1.80	2.25	2.48	2.70		3.15	3.38	3.60	3.88	
95 100	1.00	$\frac{1.90}{2.00}$	2 38 2.50	$\frac{2.61}{2.75}$	2.85 3.00	3.08 3.25	3.33 3.50	3.56 3.75	3.80 4.00	4.04	4.28
200	2.00	4.00		5.50	6.00	6.50	7.00	7.50	8.00	8.50	
300	3.00	6.00	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50
400	4.00	8.00		11.00	12.00		14.00	15 00	16.00	17.00	18.00
600	5.00 6.00	10.00 12.00		13.75 16.50	15.00 18.00	16.25 19.50	17.50 21.00	18.75 22.50	20.00 24.00	21.25 25.50	22.50 27.00
700	7.00	11.00		19.25	21.00	22.75	24.50	26.25	28.00	29.75	31.50
800	8.00	16.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	
900	9.00	18.00	22.50	24.75	27.00	29.25	31.50	33.75	36.00	38.25	40.50
1000	10.00	20.00 22.00		27.50	30.00		35.00 38.50	37.50 41.25	40.00	42.50	
1200	12.00	24.00	30.00	30.25	33.00		42.00	45.00	44.00 48.00	46.75	
1300	13.00	26.00		35.75	39.00		45.50	48.75	52.00	55.25	
1400	14.60	28.00		38.50	42.00		49.00	52.50	56.00	59.50	
1500	15.00	30.00		41.25	45.00		52.50	56.25	60.00	63.75	
1700	16 00 17 00			$\begin{vmatrix} 44.00 \\ 46.75 \end{vmatrix}$	48.00 51.00		56.00 59.50	60.00	64.00 68.00	68.00 72.25	
1800	18.00			49.50	54.00		63.00	67.50	72.00	76.50	
1900	19.00		47.50	52.25	57.00	61.75	66.50	71.25	76.00	80.75	85.50
2000	20.00			55.00	60.00		70.00	75.00	80.00		
3200	21.00 22.00	42.00		57.75 60.50	63.00		73.50 77.00	78.75 82.50	84.00		
2300	23.00				69.00		80.50	86.25	92.00		
2400	24.00	48.00	60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
3500	25.00				75.00					106.25	112.50
3700	26.00 27.00	52.00 54.00		71.50 74.25					104.00	110.50	117.00 121.50
3800				77.00				105 00	112 00	119 00	126.00
3900	29.00	58.00	72.50	79.75				108.75	116.00	123.25	130.50
3000				82.50					120.00	127.50	135.00
3200	32.00					100.75					139.53
3300						104.00		120.00 123.75	199.00	140.00	144.00 148.50
3400						110.50					
\$800	35.00	70.00	87.50	96.25	105.00	113.75	122.50	131.25	140.00	148.7	157.50
3600	36.00		90.00		108.60	117.00	126.00	185.00	144.00	153.00	162.00
8709 4800	37.00		92.50	101.75	111.00	120.25	129.50	138.75	148.00	157.25	166.50 171.00
3900	39.00		97.50	107.25	117.00	126.75	136.50	144.00	156.00	165 7	5 175.50
£200	10.00		100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.0	180.00
. 200 4 20 4	. ~			- CALL-SPAN T	151	-B		100.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

READY RECKONER.

flow to Find the Pvice of any Number of Pounds, Yards. Pieces or Bushels.

The first column gives the NUMBER—the top columns the PRICES.

-														,		and artif
Bos.	½с.	½c.	%c.	2c.	3c.	4c.	5c.	6c.	6¼c.	6%c.	7c.	8c.	8½c.	9c.	10c.	11c.
2	1/2	.01	.011/2	.04	.06	.08	.10	.12	.121/2	.131/3	.14	.16	.16%	.18	.20	.26
8	3/4	.011/2	.021/4	.06	.09	.12	.15	.18	.18%	.20	.21	.24	.25	.27	.30	.33
4	.01	.02	.03	.08	.12	.16	.20	.24	.25	.26%	.28	.32	.331/3	.36	.40	-44
5	.011/4	.021/2	.03%	.10	.15	.20	.25	.30	.311/4	.331/3	.35	.40	.41%	.45	.50	.55
	.011/2	.03	.011/2	.12	.18	.24	.30	.36	.371/2	.40	.42	.48	•50	.54	.60	.66
7		.031/2	.051/4	.14	.21	.28	.35	.42	.43%	.46%	.49	.56	.581/3	.63 .72	.70	.77
8	.02 1/4	.04	0634	.16 .18	.24	.32	.40	.48	.50 .561/4	.60	.63	.72	.75	.81	.80	.88
	.021/2	$04\frac{1}{2}$.071/2	.20	.30	.40	.50	.60	.621/2	.66%	.70	.80	831/3	.90	1.00	1.10
11	.023/2		.081/4	.22	.33	.44	.55	.66	.6834	.731/3	.77	.88	.91%	.99	1.10	1.21
12	.03	.06	.09	.24	.38	.48	.60	.72	.75	.80	.84	.96		1.08	1.20	1.32
		.081/2	.093/4	.26	.39	.52	.65	.78	.811/4	.86%	.91	1.04		1.17	1.30	1.45
	$.03\frac{1}{2}$.07	.101/2	.28	.42	.56	.70	.84	.871/2	.931/3		1.12		1.26	1.40	1.54
	.03%	.071/2	.111/4	.30	.45	.60	.75	.90	.933/4	1.00	1.05	1.20	1.25	1.35	1.50	1.65
	.04	.08	.12	.32	.48	.64	.80		1.00	1.06%	1.12	1.28	1.331/3		1.60	1.78
	.041/4	.031/2	.12%	.34	.51	.68	.85		1.061/4	1.131/3			1.41%	1.53	1.70	1.87
	.04 1/2	.09	.131/2	.36	.54	.72	.90	1.08	1.121/2	1.20 1.26%	1.20	1.44	1.501/	1.62 1.71	1.80 1.90	1.98 2.08
	.043/4			.38 .40	.57	.76		1.20					1.66%		2.00	2.20
	.05	.101/2	.15 153/	.42	.63	.84			1.311/4		1 47	1.68	1.75	1.89	2.10	2.31
	.051/2	.11	.151/2	.44	.66								1.831/3		2.20	2.42
	.05%	.111/2		.46	.69	.92	1.15	1.38		1.531/3				2.07	2.30	2.58
	.08	.12	.18	.48	.72	.96	1.20	1.41	1.50	1.60	1.68	1.92	2.00	2.16	2.40	2.64
		.121/2	.18%	.50	.75	1.00	1.25	1.50	1.561/4	1.66%	1.75	2.00	2.081/3	2.25	2.50	2.75
	.081/2		.191/2	.52	.78	1.04	1,30	1.56	1.621/2	1.731/3	1.82	2.08	2.1636	2.34	2.60	2.80
27	.063/4	.131/2	.201/4	.54	.81				1.6834	1.80	1.89	2.16	2.25	2.43	2.70	2.97
	.07	.14	.21	.56	.84	1.12	1.40	1.68	1.75	1.86%	1.96	2.24	2.33 1/3	2.52	2.80	3.08
	.071/4		.2134	.58	.87	1.16	1.45	1.74	1.81%	1.931/3	2.03	$\frac{2.32}{2.40}$	2.41%	2.61	2.90 3.00	3.19
	.071/2		.221/2	.60	.90	1.20	1.50	1.00	1.871/2	2.06%	2.10	2.40	2.30	$\begin{vmatrix} 2.70 \\ 2.79 \end{vmatrix}$	3.10	3.41
81		151/2	.231/4	.62	.95	1.28	1.00	1 00	2 00	2.13 1/3	2 24	2 56	2 668/	2.88	3.20	3.52
	.08 .08¼	1814	243/4	.66	90	1 82	1 65	1 98	2.06%	2.20	2.31	2.64	2.75	2.97	3.30	3.63
	.081/2		251/2	68	1 02	1 36	1.70	2.04	2.121/6	2.26%	2.38	2.72	2.831/2	3.06	3.40	3.74
85		.171/2	.261/4	70		1.40	1.75	2.10	2.18%	2.331/3	2.45	2.80	2.91% 3.00	3.15	3.50	3.85
36		.18	.27	72	1 08	1.44	1.80	2.16	2.25	2.40	2.52	2.88	3.00	3.24	3.60	3.96
87		.181/2	.273/4	.74	1.11	1.48	1.85	2.22	2.311/4	2.46%	2.59	2.96	3.081/3	3.33	8.70	4.0%
38			.281/2	.76	1.14	1.52	1.90	2.28	2.371/2	2.531/3	2.68	3.04	3.16%	13.42	3.80	4.18
89	.093/2	.191/2	.291/4	.78	1.17	1.56	1.95	2.34	2.43%	2.60	2.73	3.12	3.25	3.51	3.90	4.29
40		.20	.30	,80	1.20	1.60	2.00	2.40	2.50	2.00%	2.80	3.20	3.831/3	9.60	4.00 4.10	4.40
41	.101/4		.30%			1.64	2.00	2.40	2.561/4	2.80			3.41% 3.50	3.78		4.62
	.101/2	.21	.311/2		1.26	$\frac{1.00}{1.72}$	2 15	9 59	2.68%	2 86 %	3 01	9 44	3.581/3		4.30	4.73
	.10%	$\frac{.21\frac{1}{2}}{.22}$.32¼ .33	99	1 20	1 76	2.20	2 61	2.75	2 931/	3 08	3 59	3.66%	3.96		4.84
41			.33%	90	1 35	1.80	2.25	2.70	2.811/4	3.00	3.15	3.60	3.75	4.05		
46		.23	.341/2	.92	1.38	1.84	2.30	2.76	12.871/	3.06%	3.23	3.68	3.831/3	4.14	4.60	5.06
47			.351/4	.94	1.41	1.88	2.35	2.82	2.93%	3.131/3	3,29	3.76	3.91%	4.23	4.70	
	.12	.24	.36	.96	1.44	1.92	2.40	2.88	3.00	3.20	3.36	3.84	4.00	4.32	4.80	
49	.121/4	.241/2	.36%	.98	1.47	1.96	2.45	2.94	3.061/4	3.26%	3.43	3.92	4.08	4.41	4.90	
	.121/2	.25	.371/2								3.50	14.00	4.16%	4.X	5.00	
60	.15	.30	.45	1.20	1.80	2.40	3.00	3.60	3.75	4.00	4.20	4.8	5.00	5.40		
70	1.171/2		1.521/2	1.40	2.10	Z.80	3.50	4.20	4.37 1/2	4.00%	4.80	0.00	5.837	7.20	7.00 8.00	
	.20	.40	.60	1.60	2.40	3.20	4.50	4.80	5.00	0.30%	8 20	7 90	6.66% 7.50	8.10		
90			.671/2	1.80	2.00	3.00	5 00	6 00	5.62½ 6.25	6.00	7 00	18 00	8.32%	9.00	10.00	
KUU	.27	150	.75	14.00	3.00	2.00	0,00	10.00	Graden.	0.5053	1	1	70	أثثث	1	1
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ýes.	120.	12½c.	13c.	14c.	15c.	16c.	16%c.	17c.	18c.	18¾o.	19c.	20c.	210.
2 8 4 5	.48	.37½ .50 .62½	.26 .39 .52 .65	.28 .42 .56	.30 .45 .60 .75	.32 .48 .64 .80	.33 1/3 .50 .66 3/4 .83 1/3	.84 .51 .68 .85	.96 .54 .72 .90	.37½ .56¼ .75 .93¾	.38 .57 .70	.60	.85
7 8	.72 .84 .96 1.08	.87½ 1.00 1.12½	.78 .91 1.04 1.17	.84 .98 1.12 1.26	1.05 1.20 1.35	.96 1.12 1.28 1.44	1.00 1.18% 1.33% 1.50	1.02 1.19 1.36 1.53	1.08 1.28 1.44 1.62	1.50	1.14 1.33 1.52 1.71	1.40 1.60	
10 11 12 13	1.20 1.32 1.44 1.56	1.371/2 1.50 1.621/2	1.30 1.43 1.56 1.69	1.40 1.54 1.68 1.82	1.50 1.65 1.80 1.95	1.60 1.76 1.92 2.08	1.66% 1.83% 2.00 2.16%	1.70 1.87 2.04 2.21	1.80 1.98 2.16 2.34	1.87½ 2.06¼ 2.25 2.43¾	1.90 2.09 2.28 2.47	2.20	2.10 2.31 2.52 2.73
14 15 18 17	1.68 1.80 1.92 2.04	1.87½ 2.00 2.12½	1.82 1.95 2.08 2.21	1.96 2.10 2.24 2.38	2.10 2.25 2.40 2.55	2.24 2.40 2.56 2.72	2.33\% 2.50 2.66\% 2.83\%	2.38 2.55 2.72 2.89	2.52 2.70 2.88 3.06	2.62½ 2.81¼ 3.00 3.18¾	2.66 2.85 3.04 3.23	3.00	2.94 3.15 3.30 3.57
18 19 20 21	2.16 2.28 2.40 2.52	2.37½ 2.50 2.62½	2.34 2.47 2.60 2.73	2.52 2.66 2.80 2.94	2.70 2.85 3.00 3.15	2.88 3.04 3.20 3.36	3.00 3.16% 3.33% 3.50	3.06 3.23 3.40 3.57	3.24 3.42 3.60 3.78	3.37½ 3.56¼ 3.75 3.93¾	3.42 3.61 3.80 3.99	3.60 3.80 4.00 4.20	3.76 3.96 4.20 4.41
22 23 24 25	2.64 2.76 2.88 8.00	2.75 2.87½ 3.00 3.12½	2.86 2.99 3.12 3.25	3.08 3.22 3.36 3.50	3.30 3.45 3.60 3.75	3.52 3.68 3.84 4.00	3.66% 3.83% 4.00 4.16%	3.74 3.91 4.08 4.25	3.96 4.14 4.32 4.50	4.12½ 4.31¼ 4.50 4.68¾	4.18 4.37 4.56 4.75	4.40 4.60 4.80 5.00	4.62 4.83 5.04 5.25
26 27 28 29	3.12 3.24 3.36 3.48	3.25 3.37½ 8.50 3.62½	3.38 3.51 3.64 3.77	3.64 3.78 3.92 4.06	3.90 4.05 4.20 4.35	4.16 4.32 4.48 4.64	4.33 1/3 4.50 4.66 9/3 4.83 1/4	4.42 4.59 4.76 4.93	4.68 4.86 5.04 5.22	4.87½ 5.08¼ 5.25 5.43¾	4.94 5.13 5.32 5.51	5.20 5.40 5.60 5.80	5.46 5.67 5.88 6.09
80 81 82 83	3.60 3.72 3.84 3.96	3.75 3.871/2 4.00 4.121/2	3.90 4.03 4.16 4.29	4.20 4.34 4.48 4.62	4.50 4.65 4.80 4.95	4.80 4.96 5.12 5.28	5.00 5.16% 5.33% 5.50	5.10 5.27 5.44 5.61	5.40 5.58 5.76 5.94	5.62½ 5.81¼ 6.00 6.18¾	5.70 5.89 6.08 6.27	6.00 6.20 6.40 6.60	6.50 6.51 6.72 6.93
84 85 86 37	4.20 4.32 4.44	4.25 4.371/4 4.50 4.621/2	4.42 4.55 4.68 4.81	4.76 4.90 5.04 5.18	5.10 5.25 5.40 5.55	5.44 5.60 5.76 5.92	5.66% 5.83% 6.00 6.16%	5.78 5.95 6.12 6.29	6.12 6.30 6.48 6.66	6.37½ 6.56¼ 6.75 6.93¾	6.46 6.65 6.84 7.03	6.80 7.00 7.20 7.40	7.14 7.35 7.56 7.77
88 89 40 41	4.56 4.68 4.80 4.92	4.75 4.87½ 5.00 5.12½	4.94 5.67 5.20 5.33	5.32 5.46 5.60 5.74	5.70 5.85 6.00 6.15	6.08 6.24 6.40 6.56	6.83\% 6.50 6.66\% 6.83\%	6.46 6.53 6.80 6.97	6.84 7.02 7.20 7.38	7.12½ 7.31¼ 7.50 7.68¾	7.22 7.41 7.60 7.79	7.60 7.80 8.00 8.20	7.98 8.19 8.40 8.61
42 43 44 45	5.04 5.16 5.28 5.40	5.25 5.37½ 5.50 5.62½	5.46 5.59 5.72 5.85	5.88 6.02 6.16 6.30	6.39 6.45 6.60 6.75	6.72 6.88 7.04 7.20	7.00 7.16% 7.33% 7.50	7.14 7.31 7.48 7.65	7.56 7.74 7.92 8.10	7.87½ 8.06¼ 8.25 8.43¾	7.98 8.17 8.36 8.55	8.40 8.60 8.80 9.00	8.82 9.03 9.24 9.45
#3 #7 #8 #9	5.52 5.64 5.76 5.88	5.75 5.87½ 6.00 6.12½	5.98 6.11 6.24 6.37	6.44 6.58 6.72 6.86	6.90 7.05 7.20 7.85	7.36 7.52 7.68 7.84	7.66% 7.83% 8.00 8.16%	7.82 7.99 8.16 8.33	8.28 8.46 8.64 8.82	8.62½ 8.81¼ 9.00 9.18¾	8.74 8.93 9.12 9.31	9.20 9.40 9.60 9.80	9.66 9.87 10.08
50 80 70 80	6.00 7.20 8.40 9.60	6.25 7.50 8.75 10.00	6.50 7.80 9.10 10.40	7.00 8.40 9.80	7.50 9.00 10.50	8.00 9.60 1.20	8.333	8.50	9.00 10.80 12.60	9.37½ 11.25 13.12½	9.50 11.40 13.30	10.00 12.00 14.00	10.50 12.60 14.70
100	10.80 12.00	11.25	11.70	12.60	13.50	14.40	15.00		16.20	16.871/2	17.10	16.00 18.00 20.00	18.9%

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tios.	22c.	23c.	24c.	25c	26c.	27c.	28c.	29c.	30c.	31c.	32c.	33c.	33½c.	840.
2 3 4	.44 .66	.46 .69	.48 .72 .96	.75	.78	.54 .81 1.08	.56 .84 1.12	.58 .87	.60 .90 1.20	.62 .93 1.24	.64 .96 1.28	.68 .99 1.32	.66% 1.00 1.33%	.68 1.02 1.38
5	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.66%	1.70
6 7 8 9	1.32 1.54 1.76	1.38 1.61 1.84	1.44 1.68 1.92	2.00	1.82 2.08	1.62 1.89 2.16	1.68 1.96 2.24	1.74 2.03 2.32	1.80 2.10 2.40	2.17 2.48	1.92 2.24 2.56	1.98 2.31 2.64	2.00 2.33% 2.66%	2.04 2.38 2.72
	1.98	2.07	2.16		2.34	2.43	2.52	2.61	2.70	2.79	2.88	2.97	3.00	8.06
10	2.20 2.42	2.30 2.53	2.40	2.50 2.75	2.60	2.70	2.80 3.08	2.90 3.19	3.00	3.10	3.20 3.52	3.80	3.331/3	3.40
12	2.64	2.76	2.88		3.12	3.24 3.51	3.36	3.48	3.60	3.72 4.03	3.84	3.98 4.29	4.00	4.42
18	2.86 3.08	2.99 3.22	3.12	3.50	3.38	3.78	3.92	4.06	4.20	4.34	4.48	4.62	4.38%	4.76
15	3.30	8.45	3.30	3.75	3.90	4.05	4.20	4.35	4.50	4.65	4.80	4.95	5.00	5.10
16	3.52 3.74	3.68	3.84	4.00	4.16	4.32	4.48 4.76	4.64	4.80 5.10	4.96 5.27	5.12 5.44	5.28 5.61	5.33%	5.44
18	3.96	4.14	4.32	4.50	4.68	4.86	5.04	5.22	5.40	5.58	5.76	5.94	6.0	6.12
19 20	4.18 4.40	4.37	4.56 4.80		4.94 5.20	5.13	5.32 5.60	5.51 5.80	5.70 6.00	5.89 6.20	6.08	6.60	6.82	6.46
21	4.62	4.83	5.04	5.25	5.46	5.67	5.88	6.09	6.30	6.51	6.72	6.93	7.00	7.14
22 28	4.84 5.06	5.06	5.28 5.52	5.50 5.75	5.72 5.98	5.94 6.21	6.16 6.44	6.33	6.60	6.82	7.04	7.26 7.59	7.33%	7.48
24	5.28	5.52	5.76	6.00	6.24	6.48	6.72 7.00	6.98	7.20	7.44	7.68 8.00	7.92 8.25	8.00	8.16 8.50
25 26	5.50 5.72	5.75 5.98	6.00	6.50	6.76	7.02	7.28	7.54	7.80	8.06	8.32	8.58	8.66%	8.84
27	5.94	6.21	6.48	6.75	7.02	7.29 7.56	7.56	7.83	8.10	8.37	8.64 8.96	8.91 9.24	9.00	9.18
28 29	6.16	6.67	6.72	7.00	7 28 7.54	7.83	8.12	8.41	8.40 8.70	8.99	9.28	9.57	9.66%	9.86
80	6.60	6.90	7.20	7.50	7.80	8.10	8.40	8.70	9.00	9.30	9.00 9.92	9.90	10.00 10.333	10.20 10.54
81 82	6.82 7.04	7.13 7.36	7.44 7.68	7.75	8.06	8.37	8.68 8.96	8.99 9.28	9.30	9.61 9.92	10.24	10.56	10.66%	10.88
33	7.26	7.59	7.92	8.25	8.58	8.91	9.24 9.52	9.57	9.90		10.56	10.89	11.00 11.33%	11.22
34 85	7.48 7.70	7.82 8.05	8.16 8.40	8.50 8.75	8.84 9.10	9.18 9.45	9.80	9.86 10.15	10.20 10.50	10.54	11.20	11.55	11.66%	11.90
36 27	7.92	8.28 8.51	8.64 8.88	9.00 9.25	9.36 9.62		10.08 10.35	10.44	10.80	11.16	11.52 11.84	11.88 12.21	12.00 12.33 1/3	12.24
88	8.14	8.74	9.12	9.50		10.26		11.02	1	11.78	12.16	12.54	12.663	12.92
39	8.58	8.97	9.36	9.75	10.14	10.53 10.80	10.92	11.31 11.60	11.70 12.00	12.09 12.40	12.48 12.80	12.87 13.20	13.00 13.331/3	13.20 13.60
40	8.80 9.02	9.20 9.43	9.84	10.25	10.66	11.07	11.48	11.89	12.30	12.71	13.12	13.53	13.66%	13.94
42	9.24	9.66	10.08	10.50	10.92	11.34 11.61	11.76	12.18	12.60 12.90	13.02 13.33	13.44 13.76	13.86	14.00 14.331/3	14.28
44	9.46 9.68	10.12	10.56	11.00	11.44	11.88	12.32	12.76	13.20	13.64	14.08	14.52	14.86%	14.96
45						12.15 12.42		13.05 13.34		13.95 14.26	14.40 14.72	14.85	15.00 15.33\%	15.84
48	10.34	10.81	11.28	11.75	12.22	12.69	13.16	13.63	14.10	14 57	15.04	15.51	15.66%	15.98
49	10.56	11.04 11.27	11.52 11.76	12.00 12.25	12.48 12.74	12.96 13.23	13.44 13.72	13.92 14.21	14.40 14.70	14.88 15.19	15.86 15.68	15.84 16.17	16.00 16.33¾	16.32 16.66
50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	15.50	16.00	16.50	16.66%	17.00 20.40
60 70	15.40	16,10	18.80	17.50	18.20	16.20 18.90	19.60	17.40 20.30	18.00	18.60 21.70	19.20 22.40	19.80 23.10	23.33%	23.80
80	17.60	18.40	19.20	20.00	20.80	21.60	22.40	23.20	24.00	24.80	25.60	26.40	26.66%	27.20
100	19.80 22.00	20.70	24.00	22.50 25.00	28.40 26.00	24.30 27.00	25.20 28.00	26.10 29.00	27.00 30.00	27.90 31.00	28.80 32.00	29.70 33.00		90 .60 34 . ⊊₹
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4 1.40 1.44 1.48 1.50 1.52 1.50 1.69 1.69 1.69 2.00 2.05 2.10 2.15 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.28 2.24 3.31 3.68 3.50 3.00 3.01 3.50 3.00 3.00 3.60 3.77 3.80 3.00 4.00 4.10 4.20 4.30 4.40 4.51 4.62 4.73 4.84 4.95 5.06 5.6 5.25 5.60 5.60 5.60 5.60 5.60 5.60 5.60 5.60 5.60 5.60 5.74 5.8	.04
6 1.75 1.80 1.851 1.871½ 1.90 1.95 2.00 2.05 2.10 2.12 2.22 2.25 2.28 2.34 2.40 2.46 2.52 2.58 2.64 2.70 2.62 2.68 2.80 2.87 2.94 3.01 3.08 3.15 3.22 3.68 3.87 2.87 2.94 3.01 3.08 3.15 3.22 3.60 3.68 3.80 3.80 3.83 3.85 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80 4.00 4.10 4.20 4.30 4.40 4.50 4.68 4.80 4.92 5.04 5.16 5.28 5.06 5.60 5.74 4.84 4.95 5.06 5.62 5.04 5.55 5.82 5.60 5.76 5.83 6.02 6.16 6.30 6.45 5.80 5.72 5.85 5.98 <th< th=""><th>1.88</th></th<>	1.88
7 2.45 2.59 2.59 2.62½ 2.66 2.75 2.80 2.87 2.94 3.01 3.08 3.15 3.28 8 2.80 2.83 2.96 3.00 3.04 3.12 3.20 3.28 3.86 3.44 3.52 3.60 3.68 3.15 3.24 3.33 3.37½ 3.42 3.51 3.60 3.69 3.76 3.75 3.84 3.39 4.07 4.12½ 4.18 4.29 4.40 4.51 4.62 4.73 4.84 4.55 4.68 4.81 4.87½ 4.94 5.07 5.20 5.04 5.16 5.28 5.40 5.56 5.06 5.06 5.25 5.40 5.55 5.62½ 5.70 5.85 6.00 6.15 6.30 6.45 6.60 6.75 6.92 6.00 6.88 6.24 6.40 6.56 6.75 6.80 5.74 5.85 6.12 6.20 6.87½ 6.46 6.63 6.80 6.97 7.14 7.31 7.48 7.65 7.82 7.70 7.00 7.20 7.40 7.50 7.60 7.80 8.00 8.20 8.40 8.60 8.80 9.92 9.21 9.80 8.40 8.64 8.88 9.00 9.12 9.38 8.19 8.40 8.61 8.22 9.03 9.24 9.45 9.65 9.22 9.00 9.25 9.87½ 9.80 9.12 9.39 9.80 10.08 10.36 10.36 10.50 10.50 10.80 10.10 11.25 11.84 12.06 1.55 11.88 12.21 12.27 11.21 11.60 11.89 12.18 12.47 12.60 12.81 11.80 11.60 11.89 12.18 12.25 12.60 12.95 13.82 13.80 13.68 14.06 14.25 14.82 15.20 15.59 15.20 13.80 13.86 14.06 14.25 14.80 15.00 15.99 13.81 13.80 13.68 14.06 14.25 14.80 15.00 15.99 13.81 14.80 14.81 11.70 11.96 12.81 12.25 13.80 13.86 14.06 14.25 14.82 15.20 15.59 15.70 15.85 11.80 11.81 11.40 11.73 11.81 11.60 11.89 12.18 12.47 12.76 13.89 13.89 13.65 14.04 14.43 14.62 14.82 15.20 15.59 15.70 15.85 15.70 15.85 13.80 13.80 13.68 14.06 14.25 14.80 13.80 13.85 14.00 14.40 14.61 13.80 14.70 15.95 13.80 13.80 13.68 14.06 14.25 13.80 13.85 14.00 14.40 14.80 14	2.35
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$\begin{array}{c} \textbf{35} & \underline{12.25} & \underline{12.60} & \underline{12.95} & \underline{13.20} & \underline{13.30} & \underline{13.35} & \underline{14.00} & \underline{14.35} & \underline{14.70} & \underline{15.05} & \underline{15.40} & \underline{15.75} & \underline{16.10} \\ \textbf{37} & \underline{12.95} & \underline{13.32} & \underline{13.50} & \underline{13.68} & \underline{14.34} & \underline{14.40} & \underline{14.76} & \underline{15.12} & \underline{15.48} & \underline{15.84} & \underline{16.20} & \underline{16.65} & \underline{17.02} & \underline{17.10} \\ \textbf{38} & \underline{13.30} & \underline{13.68} & \underline{14.06} & \underline{14.25} & \underline{14.44} & \underline{14.82} & \underline{15.20} & \underline{15.58} & \underline{15.92} & \underline{16.38} & \underline{16.77} & \underline{17.10} & \underline{17.48} & \underline{17.10} \\ \textbf{39} & \underline{13.65} & \underline{14.44} & \underline{14.82} & \underline{15.20} & \underline{15.60} & \underline{15.99} & \underline{16.38} & \underline{16.77} & \underline{17.10} & \underline{17.48} & \underline{17.55} & \underline{15.60} & \underline{15.70} & \underline{16.80} & \underline{17.20} & \underline{17.50} & \underline{18.00} & \underline{18.40} & \underline{18.40} & \underline{14.40} & \underline{14.40} & \underline{14.82} & \underline{15.20} & \underline{15.60} & \underline{16.40} & \underline{16.80} & \underline{17.70} & \underline{17.50} & \underline{18.00} & \underline{18.40} & 18.$	
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28 29 80	21.60 22.40 23.20 24.00	23.80 24.65 25.50	28.62½ 24.50 25.87½ 26.25	26.10 27.00	26.60 27.55 28.50	27.00 28.00 29.00 30.00	40.50 42.00 43.50 45.00	54.00 56.00 58.00 60.00	84.00 87.00	108.00 112.00 116.00	135.00 140.60 145.00 150.00	270.00 280.00 290.00 800.00
81 82 88 84	24.80 25.60 26.40 27.20	27,20 28,05 28,90	27.121/2 28.00 28.871/2 29.75	28.80 29.70 30.60	29.45 30.40 31.55 32.30	31.00 32.00 33.00 84.00	46.50 48.00 49.50 51.00		96.00	124.00 128.00 132.00 136.00	155.00 160.00 165.00 170.00	810.00 820.00 830.00 840.00
85 86 87 83	28.00 28.80 29.60 30.40	30.60 31.45 32.30	30.62½ 31.50 32.37½ 33.25	32.40 33.30 34.20	34.20	37.60	52.50 54.00 55.50 57.00	72.00 74.00	105.00 108.00 111.00 114.00	140.00 144.00 148.00 152.00	175.00 180.00 185.00 190.00	350.00 360.00 370.00 380.00
89 40 41 42	31.20 32.00 32.80 33.60	34.00 34.85 35.70	34.121/ ₃ 35.00 35.871/ ₂ 36.75	36.00 36.90 37.80	37.05 88.00 38.95 39.90	40.00 41.00 42.00	58.50 60.00 61.50 63.00	80.00 82.00	117.00 120.00 123.00 126.00	}	195.00 206.00 205.00 210 00	890.00 400.00 410.00 420.00
48 44 45 46	34.40 35.20 86.00 36.80	37.40 38.25 39.10	37.621/2 38.50 39.371/2 40.25	39.60 40.50 41.40	40.85 41.80 42.75 43.70	44.00 45.00 46.00	67.50	88.00 90.00	129.00 132.00 135.00 138.00	180.00	215.00 220.00 225.00 230.00	430.00 440.00 450.00 460.00
47 48 49 50	37.60 38.40 39.20 40.00	40.80 41.65 42.50	41.121/4 42.00 42.871/2 43.75	43.20 44.10 45.00	44.65 45.60 46.55 47.50	48.00 49.00 50.00	72.00 73.50	94.00 96.00 98.00	141.00 144.00 147.00 150.00	188.00 192.00 196.00	285.00 240.00 245.00 250.00	470.00 480.00 490.00 500.00
60 70 90 90	48.00 56.00 64.00 72.00	59.50 68.00 76.50	0 52.50 0 61.25 0 70.00 0 78.75	63.00	57.00 68.50 76.00 85.50	60.00 70.00 80.00	90.00 105.00 120.00	120.00 140.00 160.00	180.00 210.00 240.00	240.00 280.00 320.00	300.00 350.00 400.00 450.00	600.00 700.00 800.00 900.08
17	80.00	85.0	87.50	90.00	95.00				300.00		500.00	100.00

THE COST OF SMOKING.

The following figures show the expense of smoking two cigars and three cigars a day, at 5 cents each, and at 10 cents each, from the age of 20 to the end of each period of five years, up to the age of 70, 6 per cent. compound interest semi-annually being reckoned upon the money.

FEOM THE AGE OF-		a Day at 5 Each.	Three Cigars a Day at 5 Cents Each.		
	Principal.	Prin. & Int.	Principal.	Prin. & Int.	
20 to 25 years. 20 to 30 " 20 to 35 " 20 to 40 " 20 to 45 " 20 to 55 " 20 to 55 " 20 to 65 " 20 to 67 "	\$ 182.50 365.00 574.50 730.00 912.50 1,095.00 1,277.50 1,460.00 1,642.50 1,825.00	\$ 209.71 490.39 868.25 1,376.08 2,058.44 8,094.99 4,367.46 6,078.73 8,378.52 11,489.25	\$ 273.75 547.50 821.25 1,095.00 1,368.75 1,642.50 1,916.25 2,190.00 2,463.75 2,737.10	\$ 313.95 745.74 1,314.72 2,081.16 3,110.74 4,494.41 6,352.87 8,655.02 12,215.86 16,216.37	
FROM THE AGE OF-	Two Cigars Cents	a Day at 10 Each.	Three Ciga 10 Cent	rs a Day at	
	Principal.	Prin. & Int.	Principal.	Prin.&Int.	
20 to 25 yeans 20 to 30 "" 20 to 30 "" 20 to 45 "" 20 to 45 "" 20 to 60 "" 20 to 60 "" 20 to 70 "" 20 to 70 ""	\$ 865.00 780.00 1,095.00 1,460.00 1,825.00 2,190.00 2,555.00 2,920.00 3,285.00 3,650.00	\$ 418.43 989.78 1,736.52 2,752.20 4,115.92 5,949.88 8,414.47 11,738.08 16,093.51 21,987.72	\$ 547.50 1,095.00 1,642.50 2,190.00 2,787.50 3,285.00 8,852.50 4,380.00 4,927.50 5,475.00	\$ 627.95 1,471.56 2,717.85 4,281.24 6,382.47 9,205.16 12,938.61 18,100.14 24,952.72 84,162.14	

PRISONERS IN 1904.

Total Number in U. S	New York
Whites	Pennsylvania
Negroes	Massachusetts
Mongolian	Texas4,504
Indian 384	Illinois
Males	California3.355
Females 4 503	Oklahoma (Had the least)

PAUPERS IN 1904—Alms-house paupers, 81,764. Males, 52,444; females, 29,320.

HOW WE SPEND OUR MONEY ANNUALLY.

Foreign Missions \$ 5,000,000 Potatoes 110,000,000 Churches 125,000,000	Flour. \$45,000,000 Tobacco 515,000,000 iron and Steel 560,000,000 Meat 870,000,000
Public Education 165,000,000 Boots and Shoes 335,000,000	Meat

TABLES OF WEIGHTS AND MEASURES.

TROY WEIGHT.

24 grains make 1 pennyweight, 20 pennyweights make 1 ounce. By this weight gold, silver and jewels only are weighed. The ounce and pound in this are same as in Apothecaries' weight.

APOTHECARIES' WEIGHT.

20 grains make one scruple, 3 scruples make 1 drachm, 8 drachms make 1 ounce, 12 ounces make 1 pound.

AVOIRDUPOIS WEIGHT.

16 drachms make 1 ounce, 16 ounces make 1 pound, 25 pounds make 1 quarter, 4 quarters make 100-weight, 2,000 pounds make a ton.

DRY MEASURE.

2 pints make 1 quart, 8 quarts make 1 peck, 4 pecks make 1 bushel, 26 bushels make 1 chaldron.

LIQUID OR WINE MEASURE.

4 gills make 1 pint, 2 pints make 1 quart, 4 quarts make 1 gallon, \$1\% gallons make 1 barrel, 2 barrels make 1 hogshead.

TIME MEASURE.

60 seconds make 1 minute, 60 minutes make 1 hour, 24 hours make 1 day, 7 days make 1 week, 4 weeks make 1 lunar month, 28, 29, 30 or 31 days make 1 calendar month (30 days make 1 month in computing interest), 52 weeks and 1 day, or 12 calendar months, make 1 year, 365 days, 5 hours, 48 minutes and 49 seconds make 1 solar year.

CIRCULAR MEASURE.

60 seconds make 1 minute, 60 minutes make 1 degree, 30 degrees make 1 sign, 90 degrees make 1 quadrant, 4 quadrants or 360 degrees make 1 circle.

LONG MEASURE-DISTANCE.

3 barleycorns 1 inch, 12 inches 1 foot, 3 feet 1 yard, 5½ yards 1 rod, 40 rods 1 frilong, 5 furlongs 1 mile, 5,280 feet 1 mile, a knot, or nautical mile, 6,086.7 feet, or about 1.18 mile,

CLOTH MEASURE.

21/2 inches 1 nail, 4 nails 1 quarter, 4 quarters 1 yard.

MISCELLANEOUS.

3 inches 1 palm, 4 inches 1 hand, 6 inches 1 span, 18 inches 1 cubit. 21.8 inches 1 Bible cubit, $2\frac{1}{2}$ feet 1 military pace.

SQUARE MEASURE.

144 square inches 1 square foot, 9 square feet 1 square yard, 30¼ square yards 1 square rod, 40 square rods 1 rood, 4 roods 1 acre, or 160 square rods 1 acre, 48,560 square feet 1 acre, 100 square feet 1 square.

SURVEYOR'S MEASURE.

7.92 inches 1 link, 25 links 1 rod, 4 rods 1 chain, 10 square chains or 160 square rods 1 acre, 640 acres 1 square mile.

CUBIC MEASURE.

1,728 cubic inches 1 cubic foot, 27 cubic feet 1 cubic yard, 128 cubic feet 1 cord (wood), 40 cubic feet 1 ton (shipping), 2,150.42 cubic inches 1 standard bushel, 231 cubic inches 1 standard gallon, 1 cubic foot four-fifths of a bushel.

METRIC SYSTEM.

The unit of the Metric System is the meter 39.37 inches long, 1 kilometer=about % of a mile. The gram is the unit of weight, weighing 15½ avoirdupois grains; a kilogram weighs 2½ pounds. The liter is the unit of measure of capacity and = .908 dry quarts, a hectoliter equal about 26 gallons. A hectars of the country of the country and the country are considered as a considered with the country and the country are considered as a considered with the country and the country are considered with the country and the country are considered with the country and the country are considered with the country and the country are considered with the considered with the country are considered with the consid

12 things make
12 dozen make
12 gross make
20 things mak
196 pounds of flour make1 barrel. 200 pounds of beef or pork make
200 pounds of beef or pork make
make
make
135 pounds of potatoes make 1 barrel. 230 pounds of salt make1 barrel. 400 pounds of molasses make 1 barrel. 200 pounds of sugar make1 barrel. 240 pounds of lime make1 barrel. 140 pounds of fish make1 quintal. 100 pounds of fish make1 box. 25 pounds of soap make1 box. 2 pounds of raisins make1 box. 2 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of soda make1 box.
230 pounds of salt make1 barrel. 400 pounds of molasses make 1 barrel. 200 pounds of sugar make1 barrel. 240 pounds of lime make1 barrel. 100 pounds of fish make1 quintal. 100 pounds of nails make1 keg. 100 pounds of soap make1 box. 20 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of soda make1 box. 40 pounds of cheese make1 box.
400 pounds of molasses make 1 barrel, 200 pounds of sugar make1 barrel, 240 pounds of lime make1 barrel, 100 pounds of fish make1 quintal, 100 pounds of nails make1 box. 50 pounds of soap make1 box. 20 pounds of raisins make1 box. 2 pounds of cigars make1 box. 20 pounds of soad make1 box. 40 pounds of cheese make1 box.
200 pounds of sugar make 1 barrel, 240 pounds of lime make 1 barrel, 100 pounds of fish make 1 quintal, 100 pounds of rails make 1 keg. 50 pounds of soap make 1 box. 20 pounds of raisins make 1 box. 2 pounds of soda make 1 box. 40 pounds of soda make 1 box. 40 pounds of cheese make 1 box.
240 pounds of lime make 1 barrel. 100 pounds of fish make 1 quintal. 100 pounds of nails make 1 keg. 50 pounds of soap make 1 box. 20 pounds of raisins make 1 box. 2 pounds of oigars make 1 box. 40 pounds of soda make 1 box. 40 pounds of cheese make 1 box.
100 pounds of fish make 1 quintal, 100 pounds of nails make 1 keg. 50 pounds of soap make 1 box. 20 pounds of raisins make 1 box. 2 pounds of eigars make 1 box. 20 pounds of soda make 1 box. 40 pounds of cheese make 1 box.
100 pounds of nails make1 keg. 100 pounds of soap make1 box. 100 pounds of raisins make1 box. 100 pounds of cigars make1 box. 100 pounds of soda make1 box. 100 pounds of cheese make1 box.
50 pounds of soap make1 box. 20 pounds of raisins make1 box. 2 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of cheese make1 box.
50 pounds of soap make1 box. 20 pounds of raisins make1 box. 2 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of cheese make1 box.
20 pounds of raisins make1 box. 2 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of cheese make1 box.
2 pounds of cigars make1 box. 20 pounds of soda make1 box. 40 pounds of cheese make1 box.
20 pounds of soda make1 box. 40 pounds of cheese make1 box.
10 pounds of cheese make1 box.
62 pounds of tea make1 box.
60 pounds of saleratus make 1 box.
25 pounds of chocolate makel box.
56 pounds of butter make1 firkin.

MISCELLANEOUS TABLE. | CARRYING CAPACITY OF FREIGHT CARS.

One Car-Load.

	Salt 80	to 100 bbls.
	Lumber8,000	to 13,000 feet.
		bush.
	Cattle 16	to 24 head.
	Hogs 40	to 60 head.
	Sheep80	to 100 head.
ı		tons.
ı		to 30 tops.
		cords.
	Tile, 3-inch6,000	
ı	Tile, 4-inch4,000	
}	Tile, 6-inch2,500	
1	Tile, 10-inch1,200	
ı	Tile, 12-inch1,000	
	Gravel 2	7 cubic yards.

A CUBIC FOOT OF

Jommon soil weight	Pounds.	Clay or stone	weighsPounds.
Strong "	127	Cork .	15
	95	Tallow	
	135	Bricks	125
1.080	708%	Marble	
Wrought iron	555 48634	Granite Oak wood	
Anthracite coal "	50-55	Red pine	42
Bituminous "	45-55	White pine	**

WIRE NAILS TO THE POUND.

	Number to the lb.	Length in inches.
3 penny fine 3 penny common	778 568	11/8
4 penny common 6 penny common	316 181	11/2
8 penny common 10 penny common 18 penny common	106 69	21/s 3
Denny common	49 31 18	8½ 4
0 penny common 0 penny common 8 penny fence	11 82	6 21/4
O penny fence	50	3'3

WEIGHT AND VALUE OF GOLD AND SILVER.

A ton of pure gold is valued at \$602,799.21. The weight of a million dollars in gold coin is \$,685.8 pounds.
A ton of pure silver is valued at \$37,704.84. The weight of a million dollars

in silver coin is 58,929.9 pounds.



HOW TO FIND THE DAY OF THE WEEK FOR ANY DATE.

RULE.—Take the last two figures of the given year and add one-fourth of itself to it; add also to this the day of the month and the ratio of the month and divide the sum by 7, and the remainder will be the day of the week. I denoting Sunday, 2 Monday, 3 Tuesday, and so on, and when there is no remainder it is Saturday.

Ratio: For Feb., March and Nov. is 6; for Sept. and Dec. 1; for April and July 2; for May 4; for Jan. and Oct. 3; for Aug. 5, and for June 0.

Example: On what day of the week was John born if the date was Sept. 16, 1841?

Last 2 figures of the year 41. Solution: $41 \div 4 = 10$ Day of the month 16 Ratio 1

Total 68 68÷7=9 with 5 remainder.

Hence John was born on the 5th day of the week or Thursday.

N. B. The above rule is for the 19th century; for the 18th century add 2 before dividing by 7, and for the present century subtract 2 before dividing by 7. For leap years, subtract 1 from the ratio of January and February.

BUSINESS FAILURES IN THE UNITED STATES—1870 TO 1911.

Year.	Failures.	Amount of liabilities.	Year.	Failures.	Amount of liabilities.
1870 1871 1871 1872 1873 1875 1876 1876 1877 1879 1880 1881 1882 1883 1881 1882 1883 1885 1885 1885 1886 1887 1887 1889 1889 1889 1889	3,546 2,915 4,069 5,183 5,880 7,740 9,092 8,872 10,478 4,735 5,582 6,738 9,184 10,637 9,834 10,679 10,882 10,967 10,882 10,907	\$8,242,000 85,252,000 121,056,000 228,499,900 155,239,000 201,000,000 191,177,000 190,669,936 234,383,132 98,149,053 65,752,000 81,155,932 101,547,564 172,874,172 226,343,427 124,220,321 114,644,119 167,560,944 123,829,973 148,784,337 189,856,964 189,866,638 114,044,167	1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1908 1909 1901	15,242 13,885 13,197 15,088 13,351 12,186 9,337 10,774 11,002 11,615 12,069 12,199 11,520 10,682 11,725 15,690 12,924 12,924 12,652 9,944	\$ 346,779,889 172,992,856 173,196,060 266,096,834 154,332,071 130,662,899 90,879,889 138,495,673 113,992,376 117,476,769 115,444,185 144,202,311 102,676,172 119,201,515 197,385,225 222,315,684 154,603,465 201,757,697 111,726,695

^{*}Ten months to Oct. 31st, 1911.

TOTAL RECORDED IMMIGRATION INTO THE UNITED STATES SINCE THE ORGANIZATION OF THE GOVERNMENT UP TO 1911 IS 28,772,880.

Year.	Immi- grants. Year.	Immigrants. Year.	Immigrants. Year.	Immi- grants.
1830 1831 1832 1832 1833 1834 1835 1836 1837 1840 1849 1844 1844 1844 1844 1844 1845 1848 1848 1849 1849 1850 1850	23,322,1852, 22,633,1853, 60,482,1854, 58,640,1855, 66,365,1856, 45,374,1857, 76,242,1858, 79,340,1859, 38,914,1860, 68,069,1861, 84,066,1862, 80,239,1863, 104,565,1866, 114,371,1867, 154,416,1868, 234,968,1869, 226,527,1870, 297,024,1871, 369,986,1872, 379,466,1873,	371,603 1874 368,645,1875 427,833 1876 200,377 1877 195,557 1878 246,945 1879 119,501 1880 118,616 1881 150,237 1882 89,724 1883 89,207 1884 174,524 1885 193,195 1886 247,453 1887 163,594 1888 298,967 1889 282,189 1890 552,569 1891 387,203 1892 321,350 1893 404,806 1894 459,803 1895	313,339 1896 227,498 1897 169,986 1888 141,857 1899 138,469 1900 177,826 1901 457,257 1902 669,431 1903 788,992,1904 603,322 1905 518,592 1906 395,346 1907 334,203 1998 490,109 1909 546,889 1910 444,427 455,302 560,319 623,084 502,917 314,467 279,948	343,267 230,832 229,299 311,715 448,572 487,918 857,046 815,361 1,027,421 1,100,735 1,285,349 751,788 1,041,570 878,587

(Year Book, 1912.)

Colleges in the United States (1910).	Armies of Di
Universities and colleges. 602 Instructors 27,279 Students, male 201,841 Students, female 100,477	-Army and I Russia Italy France
Public Schools.	Germany Turkey
Teachers, male 108,300 Teachers, female 398,153 Total pupils 17,506,175	China Great Britain United States

Armies of Different Nations -Army and Navy Combined.

Russia
Italy
France
Germany 625,506 Turkey 414,929
China
Great Britain 540,089
United States 135,198

RELIGIOUS STATISTICS OF THE UNITED STATES.

Denomination.	Members.
Catholic	. 10,238,824
Methodist	
Baptist	5,150,815
Presbyterian	1,697,697
Lutheran	1.789,966
Disciples of Christ	
Protestant Episcopals	
Congregational	
All other bodies	

CREEDS IN THE WORLD.

Christianity4	80 millions
Confucianism2	56 **
Hindooism1	90 44
Mohammedanism1	75 44
Buddhism1	47
Polytheism1	20 "

ILLITERACY.

The per cent. of illiteracy in the
scale of 100 in different countries is:
India95
Mexico93
Russia85
Greece82
Spain
Italy59
China50
Austria
Ireland28
France
United States
Japan10
England 9
Switzerland 5
Germany4
Scandinavia 3

SALARIES OF RULERS.

The following condensed table shows the salaries of the principal rulers of the world. Out of these salaries some rulers have much to pay in order to maintain the character of their position, so that comparisons cannot easily be made. In many of these cases the royal household is included. Ruler. Country. Salary. Russia......Czar.....\$12,000,000

 Russa
 3,000,000

 Turkey
 Sultan
 10,000,000

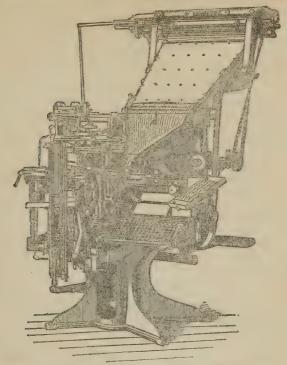
 Great Britain
 King
 3,000,000

 Germany
 Emperor
 4,000,000

 Italy.....King. 2,900,000 Austria.....Emperor. 5,000,000 Spain King Japan Mikado Brazil, Sweden, 1,800,000 1,250,000 600,000 240,000 75,000 Switzerland..... 8,000

SALARIES OF UNITED STATES OFFICERS.

STATES OFFICERS.
President \$75,000
Vice President
Inter-State Commerce
Commissioners 10,006
Chief Justice 13,000
Associate Justices 12,500
Representatives in Con-
gress 7,500 to
Treasurer of U.S 6,000
U. S. Ministers to Great Britain, France, Ger-
many, Mexico, Russia,
Austria-Hungary, Italy,
Brazil, Japan and Tur-
key 17,500 **
U. S. Ministers to China and Spain 12,000
and Spain
tine Republic, Chile;
Columbia, Guatemala,
Nicaragua and Peru 10,000



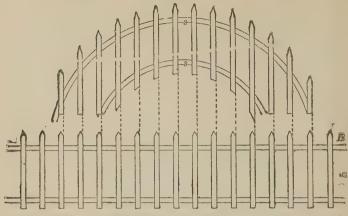
THE LINOTYPE OR TYPESETTING MACHINE.

The typesetting machine is in general use in the United States. It casts its own type in solid line as they are set and its case carries matrices instead of types. As the operator fingers the keyboard which resembles the keyboard of a typewriter, the matrices called for are set in order. When a line has been set the machine casts it automatically to the casting apparatus where it is properly spaced or justified, and the matrices are filled with melted type metal, casting the type into a solid line. This is then automatically set in the stick in its proper place and the matrices are returned by a lever arm to the case, where by means of an automatic arrangement they are distributed to their proper channels.

The operator pays no attention to the casting, the placing the type into the stick, or the distribution of the matrices, the

machine performing all these operations automatically.

Mr. Ottmar Mergenthaler is the inventor and he worked twenty years to perfect and complete it. By its use one operator can do the work of eight men working by hand.

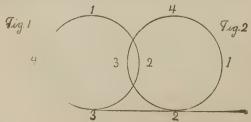


DOES IT TAKE MORE PICKETS TO BUILD OVER A HILL THAN ON A LEVEL?

Many arguments and discussions have taken place over this simple problem. It takes no more pickets to build over a hill than on a level. You can see from the above figure, that the num per of pickets are the same by actual count. The curve lines represent the hill, and the lower lines the level ground. The dotted lines join the two, and they make the same fence over the hill, and are no farther apart than on the level.

DOES THE TOP OF A CARRIAGE WHEEL MOVE FASTER THAN THE BOTTOM?

This seems absurd, but it is strictly true, as any one may satisfy himself in a moment by setting up a stake by the side of a wheel and then moving the wheel forward a few inches. The accompanying illustration may make it still clearer. Let the wheel move from position held by Fig. 1 to position of Fig. 2. I has moved over a much greater space than 3, and consequently has moved faster.



USEFUL REFERENCE RULES AND ITEMS.

HOW TO WRITE YOUR NAME ON IRON TOOLS.

- 1. Melt a little beeswax or hard tallow and pour it on the iron at the place intended to be marked. After the wax or tallow cools take an awl or sharp piece of iron and write your name in it.
- 2. Pour a little nitric acid on the wax, where you have written your name, and allow it to remain a few moments. Then wipe off the wax, and your name remains indelibly marked as written in the wax.
- 3. Be careful and allow none of the acid to come in contact with your clothes or hands.

HOW TO WRITE YOUR NAME ON GLASS.

- 1. Apply beeswax and write your name as in the above.
- 2. Then instead of nitric acid, apply hydrofluoric acid and your name will remain permanently written on the clear surface of the glass.

HOW TO MAKE A HOLE IN GLASS.

Place a piece of stiff clay or putty on the part where you wish to make the hole. Make a hole in the putty reaching to the glass and just the size you want the hole in the glass. Pour a little molten lead into this hole and the piece of glass will drop out. This will not fail unless the glass is very thick.

COMMON NAMES OF CHEMICAL SUBSTANCES.

Blue VitriolSulphate of Copper
ChalkCarbonate of Calcium
Common SaltChloride of Sodium
CopperasSulphate of Iron
WaterOxide of Hydrogen
LimeOxide of Calcium
GlucoseGrape Sugar
SodaBicarbonate of Sodium
Cream of TartarBitartrate of Potassa
Epson SaltsSulphate of Magnesia
Oil of VitriolSulphuric Acid
Potash
VinegarAcetic Acid (diluted)
Spirits of Hartshorn Aqua Ammonia

PAINTING RULES.

One coat, or priming, will take, per 100 yards of painting, 20 pounds of lead and 4 gallons of oil. Two-coat work, 40 pounds of lead and 4 gallons of oil. Three-coat, the same quantity as two-coat; so that a fair estimate for 100 yards of three-coat work would be 100 pounds of lead and 16 gallons of oil.

One gallon priming color will cover 50 superficial yards; white zinc, 50 yards; white paint, 44 yards; lead color, 50 yards; black paint, 50 yards; stone color, 4 yards; yellow paint, 44 yards; blue color, 45 yards; green paint, 45 yards; bright emerald green

25 yards; bronze green, 75 yards.

One pound of paint will cover about 4 superficial yards the first coat, and about 6 each additional coat. One pound of putty, for stopping, every 20 yards. One gallon of tar and one pound of pitch will cover 12 yards, interchange the first coat, and 17 yards each additional coat. A square yard of new brick wall requires, for the first coat of paint in oil, 34 pound; for the second, 3 pounds; for the third, 4 pounds.

A day's work on the outside of a building is 100 yards of the first coat, and 80 yards of either second or third coat. An ordinary door, including casings, will, on both sides, make 8 to 10 yards of painting, or about 5 yards to a door without the casings.

An ordinary window makes about 21/2 or 3 yards.

HOW TO MIX PAINTS OF VARIOUS COLORS.



Buff-White, yellow ochre and red. Chestnut-Red, black and yellow. Chocolate-Raw umber, red and black. Chocolate—Raw umber, red and black.
Claret—Red, umber and black.
Copper—Red, yellow and black.
Dove—White, vermilion, blue and yellow.
Drab—White, yellow ochre, red and black.
Fawn—White, yellow ochre and vermilion.
Flesh—White, yellow ochre and white
Frenstone—Red, black, yellow ochre and white
French Grey—White, Prussian blue and lake.
Grey—White lead and black.
Grey—White at yellow ochre and red. Grey—White lead and black.
Green Bronze—Chrome green, black and yellow.
Green Pea—White and chrome green.
Lemon—White and chrome yellow.
White and chrome yellow. Limestone-White, yellow ochre, black and red Olive-Yellow, blue, black and white.

Orange—Yellow, pine, black and white.
Orange—Yellow and red.
Peach—White and vermilion.
Pearl—White, black and blue.
Pink—White, vermilion and lake.
Purple—Violet, with more red and white. Rose-White and madder lake. Sandstone—White, yellow ochre, black and red. Snuff—Yellow and Vandyke brown. Violet—Red, blue and white.

The first named color is always the principal ingredient, and the others follow in the order of their importance. Thus in mixing a limestone tint, white is the principal ingredient, and the red the color of which the least is needed. The exact proportions of each color must be determined by experiment with a smaller quantity. It is best to have the principal ingredient thick, and add to it the other paints thinner.

DISTANCES, POPULATIONS AND TIMES OF FASTEST MAILS.

INDIA, CHINA, JAPAN AND AUSTRALIA MAILS.

Figures in parenthesis indicate number of days in transit from por? of embarkation.

The Post-Office Department allows 6 days for transmission of mails from New York to San Francisco, and 7 days from New York to Vancouver, B. C., and Tacoma, Wash., and 9 days from New York to London. Leave London, Eng., every Friday for Aden (11-13), Bombay (17), Colombo (18), Singapore (26), Hong Kong (33), Shanghai (38), Yokohama (44), Leave San Francisco, Cal., about every 9 to 12 days for Singapore (31-35), Hong Kong (25), Shanghai (25-28), Yokohama (17). By Pacific Mail and Occidental and Oriental Steamship lines.

Yokohama (16). By Northern Pacific Steamship lines.
Yokohama (16). By Northern Pacific Steamship Co.
Australia Mails.—Mails for West Australia are all sent via London.
Leave San Francisco, Cal., every 9 to 19 days for Honolulu, Sandwich Islands (7); and every 28 days for Auckland, New Zealand (21), Sydney, New South Wales (26). By Oceanic Steamship Co. Mails also leave Vancouver, B. C., on the 8th of each month, and must be marked "Via Vancouver."

POSTAL DISTANCES AND TIME FROM NEW YORK CITY.

As indicated by the Official Postal Guide, showing the distance by shortest routes and time in transit by fastest trains from New York City.

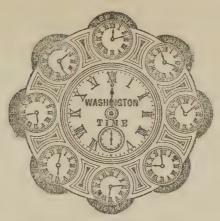
			15		- manufacture of \$15.5
CITIES IN UNITED STATES.	Miles.	Hours	CITIES IN UNITED STATES.	Miles.	Hours
Albany, N. Y	142	41/2	Louisville, Ky	854	34
Atlanta, Ga		2414	Memphis, Tenn	1.163	40
Baltimore, Md	188	6	Milwaukee, Wis	985	29%
Bismarck, N. Dak	1,738	601/6	Montgomery, Ala	1,057	301/4
Boise City, Idaho	2,736	921/2	Montpelier, Vt	327	101/4
Boston, Mass	217	7	New Orleans, La	1,344	40
Buffalo, N. Y	410	111/2	Omaha, Neb	1,383	43
Cape May, N.J	172	6	Philadelphia, Pa	90	3
Carson City, Nev	3,086	109	Pittsburg, Pa	431	13
Charleston, S. C	804	2114	Portland, Me	325	12
Chattanooga, Tenn	853	32	Portland, Ore	3.181	1141/4
Cheyenne, Wyo	1,899	56	Prescott, Ariz	2,724	94
Chicago, Ill	900	24	Providence, R. I	189	6
Cincinnati, O	744	231/2	Richmond, Va	344	11%
Cleveland, O	568	191/2	St. Louis, Mo	1,048	29
Columbus, O	624	20	St. Paul, Minn	1,300	37
Concord, N. H	292	91/2	Salt Lake City, Utah	2,452	71%
Deadwood, S. Dak	1,957	651/2	San Francisco, Cal	3,250	1241/6
Denver, Col	1,930	601/2	Savannah, Ga	905	28
Des Moines, Ia	1,257	371/2	Tacoma, Wash	3.209	127
Detroit, Mich	743	25	Topeka, Kan	1,370	40
Galveston, Tex	1,789	56½ 6	Trenton, N. J.	1,288	50
Harrisburg, Pa	182	4	Vicksburg, Miss Vinita, Ind. Ter	1,412	42
Hartford, Ct	2,423	89	Washington D.C.	228	61/4
Helena, Mont	1,367	55	Washington, D. C Wheeling, W. Va	496	161/4
Hot Springs, Ark	808	23	Wilmington, Del	117	5
Indianapolis, Ind	1.077	311/2	Wilmington, N. C.	593	20
Jacksonville, Fla	1.302	381/2	William Brown IV.	000	644
Karsas City, Mo	1,004	0074			

Distance in Miles of the Different State Capitals from Washington, the National Capital.

According to a compilation of the Pe	ostmaster-General, February 12, 1894.
Albany, N. Y 373	Jefferson City, Mo1,019
Annapolis, Md 42	Lansing, Mich 661
Atlanta, Ga 649	Lincoln, Neb
Augusta, Me 615	Little Rock, Ark
Austin. Tex	Madison, Wis 910
Baton Rouge, La1,179	Montgomery, Ala 824
Bismarck, N. D	Montpelier, Vt 555
Boise City, Idaho2,600	Nashville, Tenn 779
Boston, Mass 444	Providence, R. I
Carson City, Nev2,898	Olympia, Wash.,3,110
Charleston, W. Va 386	Phoenix, Ariz
Cheyenne, Wyo1,763	Pierre, S. D
Columbia, S. C	Raleigh, N. C 299
Columbus, O	Richmond, Va 116
Concord, N. H. 491	Sacramento, Cal3,022
Denver, Colo	St. Paul, Minn
Des Moine, Ia	Salem, Ore
Frankfort, Ky 604	Santa Fe, N. M
Guthrie, Okla	Springfield, Ill 835
Harrisburg, Pa 125	Tahlequah, Ind. Ter1,319
Hartford, Conn 341	Tallahassee, Fla 872
Helena, Mont	Topeka, Kans
Indianapolis, Ind 643	Trenton, N. J
Jackson, Miss1,011	2102002, 211 01 111111111111111111111111

Distances from New York and the Time it Takes Letters to Reach their Destination in Different Parts of the World.

their bestination in binefeat faits of the vi	oriu.	
То—	Miles.	Days.
Adelaide, via San Francisco	.12.845	34
Alexandria, via London		13
Amsterdam, via London		-8
Athens, via London	5 655	12
Bahia, Brazil	5 870	21
Berlin, via London	4 385	9
Bombay, via London	0.765	24
Buenos Ayres	0 015	26
Calcutta, via London	11 100	26
Can Town wis I and an	11,140	
Cape Town, via London	11,245	27
Constantinople, via London	5,810	11
Florence, via London		10
Glasgow	3,375	8
Greytown, via New Orleans	2,810	7
Halifax, N. S.		2
Havana, Cuba	. 1,400	2 3
Hong Kong, China, via San Francisco	10,590	25
Honolulu, Sandwich Islands, via San Francisco	. 5.645	12
Liverpool, England	3.540	7
London, via Queenstown	3 740	7
Madrid, via London	4 925	9
Melbourne, Australia, via San Francisco	12 265	26
Mexico City by railroad	3.750	5
Panama	9 955	6
Paris	4.000	8
Rio de Janeiro	6 720	23
Rome, via London		
St. Petersburg, via London	5,030	9
Chanchei wie Can Emaneigae	5,370	9
Shanghai, via San Francisco	9,920	25
Stockholm, via London	4,975	9
Sydney, via San Francisco	11.570	21
Valparaiso, via Panama	5,910	37
Vienna, via London	4,740	9
V- tohama. via San Francisco	8,725	20



OTHER PRINCIPAL CITIES OF THE WORLD AND LONGEST DAY AT PRINCIPAL PLACES.

					EST Hr.	DAY.
19 00	0'0100	l- noon o	t Washington.		18	38
12.12		P. M.	New York.		18	35
12.24		E = 171.	Boston.		17	34
12.27	66	. 66	Portland.	Edinburgh	17	32
1.37	66				17	20
	- 66	66	St. John (N. F.).		- 0	52
4.31	44		Lisbon.		16	
4.43	66		Dublin.		16	40 34
4.55	66	4	Edinburgh.		16	
5.07		. 44	London.		16	05
5.17	66	66	Paris.		16	00
5.58			Rome.		15	56
6.02	46	46	Berlin.		15	20
6.14	46	46	Vienna.		15	14
7.04	46	41	Constantinople.		15	08
11.01	66	. 44	Calcutta.		15	05
12.54	46	A. M.	Pekin.	Constantinople	15	04
2.48	66	66	Melbourne.	Naples	15	00
4.51	46	66	Auckland.	Pekin	14	58
8.58	44	46	San Francisco.	Philadelphia	14	56
9.40	66	86	Salt Lake.	Washington	14	52
11.08	46	44	New Orleans.		14	20
11.18	46	44	Chicago.		13	24
11.52	86	44	Buffalo.		12	34
12.00	46	noon	Lima (Peru).		12	00

The above is actual time, not standard time.

STATES AND CANADA.

First-Class Fare Subject to Slight Changes.

(We aim to give the most direct route only.)

\$ 250 Ar	,				and the second s
PLACES.	MILES.	FARE.	PLACES.	MILES.	FAR E ,
Akron	368	\$ 6 75	DunkirkN. Y.	500	\$ 9 70
AlbanyN. Y.	838	15 80	DuluthMinn	478	9 30
AlbuquerqueN.M.	1,391	35 65			75
Allegheny CityPa.	467	9 50	EriePa.	452	8 55
AllentownPa.	916	17 07	EvansvilleInd.	287	5 75
AllianceO.	385	7 55		1,042	19 20
AltoonaPa.		12 43		645	12 85
AnnapolisMd.		18 10		1,083	26 15
AtlantaGa.	783			954	18 00
Atlantic City N. J. Atchison Kan.	886 556	19 25	Fort WayneInd. ForestO.	148	3 75
AugustaMe.	1,200		Fort ScottKan.	239 557	5 60 12 75
AugustaGa			Fort WorthTex.	957	21 35
AuroraIll.			FrankfortKy.	368	7 65
Austin Tex.	987	26 45	FreeportIll.	114	2 26
BangorMe.		23 85	Galveston Tex.	1,152	29 70
Baltimore	859		GalesburgIll.	164	3 26
Battle Creek Mich.	164		GettysburgPa.	771	3 26 15 72 3 55
Bay CityMich.	296 469	5 65	Grand Lapids Mich.	215	3 55
BerlinOnt.	445		GrenadaMiss. Green RayWis.	318	15 18
Birmingham Ala.	653		GreenvilleTex.	198 905	3 95
BostonMass.	1,004		Hamilton Can.	472	20 70 10 50
BridgeportConn.			Hamilton	235	5 40
Buffalo N. Y.			HannibalMo.	329	5 26
BurlingtonIa.	207	4 15	Harristong Pa.	716	15 72
Burlington Vt.	1,095		Zartfe: i Conn.	\$61	18:00
CairoIll.		7 28		638	12:9"
Canton	367	7 15	Haverhill Mass.	1,034	18 74
Cape MayN. J. Sedar RapidsIa.	903 271	19 75		1,582	37 40
Charleston S. C.		4 55	Hot SpringsArk. Holly SpringsMiss.	693	17 40
ChattanoogaTenn.	595	14 50	HoustonTex.	543 1,162	15 93 28 25
Cheyenne Wyo		22 60	HudsonN.Y.	836	16 45
CincinnatiO	300		Indianapolis Ind.	183	3 70
ClevelandO	. 339	6 75	lowa Cityla.	237	4 60
ColumbusO	398	7 00	IthacaN. Y.	666	13 78
Council BluffsIa			JacksonvilleFla.		26 15
ColumbiaS.C.	837		JacksonMiss.		18 53
ConcordN. H. CorsicanaTex	. 963 975		Jackson, Mich.	209	
GrestlineO			JanesvilleWis. Jefferson CityMo.	91	2 00
DallasTex		-91 95	JolietIll.	378	
DavenportIa	183	3 50	Kalamazoo Mich.	37	2 82
DaytonO.	265		Kansas City Mo.	489	
DecaturIll	. 170	3 36	Krokuk	250	
DenverColo	1,118	22 60	Knoxville Tenn.	566	
Des MoinesIa.		7 00	La Crosse Wis.	280	
DetroitMich.		5 00	Lake Geneva Wis.	85	
DoverDel.	921 188	18 50	LancasterPa.	754	
PabuqueIa.	1 100	5 70	LansingMich.	21.0	4 17
· Carrier to this property of the	Description,	-	A COLOR OF THE PARTY OF THE PAR	NA THE PROPERTY.	-

100					
PLACES.	MILES.	FARE.	PLACES.	MILES.	FARE.
T 1 311 - G-1 -	4 400				
LeadvilleColo.	1,169		QuincyIll.	262	\$5 26
LeavenworthKan. LexingtonKy.	589 376	10 75	BacineWis.		1 24
Lincoln Noh		3 40	Raleigh N. C. Richmond Ind.	1,154	20 30
LincolnNeb. Little RockArk.	552 628		RichmondVa.	223 933	5 00
LogansportInd.	116	15 99	RockfordIll.	86	18 50 1 70
Long Branch N. J.	914	19 00	RochesterN. Y.	550	11 88
London	399	8 40	Rock IslandIll,	181	3 50
Los AngelesCal.	2,266	59.75	Rome N. Y.	711	14 26
LyonsIa.	137	2 90	San Antonio Tex. Saginaw Mich.	1,213	28 80
MadisonInd.	269	5 45	Saginaw Mich.	283	5 43
MadisonWis.	133	2 60	SacramentoCal.	2,257	59 75
			Salt Lake City Utah.	1,566	37 40
MaconGa.	821	20 50	Santa FeN. M.	1,342	33 70
ManitowocWis. MarquetteMich.	1.32	3 25	SanduskyO.	307	6 50
MarquetteMich.	390	7 95	Savannah Ga. San Francisco Cal.	1,088	24 60
Marshalltownla. MemphisTenn.	288	5 95	San Francisco Cai.	2,411	59 75
MenomineeMich.	52S 265	12 33 5 00	SeattleWash. ShermanTex.	2,342	58 20 19 45
MilwaukeeWis.	85	1 70	ShreveportLa.	815	22 50
MinneapolisMinn.	423	8 00	Sion City Ia.	510	10 25
MolineItl.	429 135	3 45	Sioux CityIa. SpringfieldO.	300	6 45
MontpelierVt.	1 703	19 00	SpringfieldIll.	185	3 70
MontgomeryAla.	793.	19 20	Springfield Mass.	935	18 75
Mobile	9733	21 60	Spokane	1,914	46 70
Montreal Can.	837	-18 00	Steubenville	426	8 45
Muscatine Ia. Nashville Tenn. Nebraska City Neb.	211	4 05	St. LouisMo. St. PaulMinn.	280	5 80
NashvilleTenn.	141	10 75	St. PaulMinn.	110	8 00
Nebraska CityNeb.	498	10 30	St. JosephMo.	469	10 75
New York N. Y.	912	18 00	Syracuse	673	13 48
New HavenConn.	915	18 60	TacomaWash.	2,314	56 90
NewarkLa.	912 365	23 00	TallahasseeFla. Terre HauteInd.	1,033 178	25 15 3 60
NewarkN. J.	905	7 65 18 00	TexarkanaArk.	773	20 60
Newark	927	12 48	TiffinO.	254	5 80
Newport	1,044	19 82	ToledoO.	243	5 50
21011 1010 11111 1111 1111 1111	2,011	13 04	TopekaKan.	555	12 10
Niagara FallsN. Y.	513	10 50	Toronto,Can.	506	11 60
OgdenUtah.	1,514	37 40	TrentonN. J.	859	18 00
OgdensburgN. Y.	788	16 90	TroyN.Y.	826	15 80
Oil CityPa.	498	9 50	UrbanaO.	267	6 45
OmahaNeb.	497	10 00	UticaN. Y.	725	14 54
OttawaCan.	757	18 00	VicksburgMiss.	761	18 93 4 75
PasadenaCal. PatersonN. J.	2,255	59 75	VincennesInd.	235	23 20
PensacolaFla.	969 955	18 00	WacoTex. WashingtonD. C.	1,031 819	17 50
PeoriaIll.	155	21 60	WashingtonD. U.	916	18 00
PeruInd.	132	3 00 2 50	West PointN. Y. WheelingW. Va.	475	8 75
PhiladelphiaPa.	822	18 00	THOUSENESS	210	0.10
Pine BluffArk.	633	16 35	White Sul. SpgsW.Va.	637	14 25
PittsburgPa.	468	0.00	Wilmington Del.	930	18 00
PortlandMe.	1,114	20 50	WinonaMinn. WinnipegManitoba	308	6 00
PortlandOre.	2,488	56 90	WinnipegManitoba	345	18 00
Port HuronMich.	335	6 501	Xenia	280	6 45
PortsmouthO.	413		Yankton	569	11 50
PuebloColo.	1,107	22 60	YoungstownO.	398	7 80 8 1 5
Pullman III. Quebec Can.	14		ZanesvilleO.	390	0 10
Wunnig Can.	1,107	22 00 1	The second secon	The American	- CERET

THE POPULATION OF THE PRINCIPAL CITIES OF THE UNITED STATES.

THE CENSUS OF 1890, 1900, AND 1910 OF EVERY TOWN AND CITY HAVING A POPULATION OF 5,000 OR MORE.

CITIES.	1890.	1900.	1910.
ALABAMA.	0.000	0.004	40 504
AnnistonBessemer	9,998 4,544	9,694 6,358	12,794 $10,864$
Birmingham	26,175	38,415	132,695
Dothan	247	3,275	7,016
Florence	6,012	6,478	6,680
Gadsden	2,901	4,282	10,357
Huntsville	7,995	8,068	7,611 31,521
Mobile	31,076 21,883	36,469 20,346	38,136
New Decatur	3,565	4.437	6,115
Selma	7,622	8,713	13,649
Talladega	4,063	5,056	5,634
Tuscaloosa	4,213	5,094	5,407
ARIZONA.	1		
Bisbee			9,019
Douglas	803	1 405	6,437
Globe		1,495	7,083 5,010
Phoenix		5,544	11,134
Prescott	1,759	3,559	5,092
Tucson	5,150	7,531	13,193
ARKANSAS.			
Argenta			11,138
Fort Smith	11,311	11,587	23,975
Helena		5,550	8,772
Hot Springs	8,086	9,973	14,434 7,123
Little Rock	2,065 25,874	4,508 38,307	45.941
Paragould	1,666	3,324	5,248
Pine Bluff	9,952	11,496	15,102
Texarkana	3,528	4,914	5,655
CALIFORNIA.			
Alameda		16,464	23,383
Alhambra			5,021
Bakersfield	2,626	4,836	12,727
Berkeley Eureka	5,101 4,858	13,214 7,327	40,434
Fresno		12,470	11,845 24,892
Long Beach	564	2,252	17,809
Los Angeles	50,395	102,479	319,198
Marysville	3,991	3,497	5,430
Napa	4,395	4,036	5,791
Oakland	48,682	66,960	150,174
PasadenaPetaluna	4,882 3,692	9,117 3,871	30,291 5,880
Pomona	3,634	5,526	10,207
Redlands	1,904	4,797	10,449
Richmond	1		6,802
Riverside	4,683	7,973	15,212
Sacramento	. 26,386	29,282	44,696

CITIES.	1890.	1900.	1910.
San Bernardino. San Diego San Diego San Francisco. San Jose San Louis Obispo. San Rafael. Santa Ana. Santa Barbara. Santa Cruz. Santa Monica. Santa Rosa. Stockton. Vallejo. COLORADO.	4,012 16,159 298,997 18,060 2,995 3,290 3,628 5,864 5,596 1,880 5,220 14,424 6,343	6,150 17,700 342,782 21,500 3,021 3,879 4,983 6,587 5,659 3,057 6,673 17,506 7,965	12,779 39,578 416,912 28,946 5,157 5,934 8,429 11,659 11,146 7,847 7,817 23,253 11,349
Boulder	3,330 2,825 11,140	6,150 3,775 21,085 10,147	9,539 5,162 29,078
Denver. Fort Collins. Grand Junction. Greeley. Leadville. Pueblo. Trinidad.	106,713 2,011 2,030 2,395 10,384 24,558 5,523	10,147 133,\$59 3,053 3,503 3,023 12,455 28,157 5,345	6,206 213,381 8,210 7,754 8,179 7,508 44,395 10,204
Ansonia Bridgeport Bristol Danbury Derby Hartford Meriden Middletown New Britain Naugatuck New Haven Norwich Norwich Norwalk Putnam Rockville South Norwalk Stamford Torrington Wallingford Waterbury West Haven Willimantie	10,342 48,866 7,374 16,552 5,969 53,230 21,652 9,013 16,519 6,218 81,298 13,759 16,156 17,739 6,511 7,772 15,685 6,283 4,230 28,646	12,681 70,996 6,268 16,537 7,930 79,850 28,695 9,589 28,202 10,541 108,027 17,548 17,251 6,125 6,667 7,287 6,591 15,997 8,360 6,737 6,737 6,397 8,937 6,804	15,152 192,054 9,527 20,234 8,991 98,915 32,066 11,851 43,916 13,659 20,367 6,954 6,637 7,977 8,968 25,138 15,483 8,690 73,141 8,543 11,230 7,754
Wilmington	61,431	76,508	87,411
DISTRICT OF COLUMBIA. Washington	147,293	229,769	331,069
FLORIDA. Gainesville. Jacksonville. Key West City. Lake City	2,790 17,201 18,080 2,029	3,638 28,429 17,114 4,013	6,183 57,699 19,945 5,032

CITIES.	1890.	1900.	1910.
Miami. Pensacola. St. Augustine. Tallahassee Tampa. West Tampa.		1,681 17,747 4,272 2,891 15,839 2,355	5,471 22,982 5,494 5,018 37,782 8,258
GEORGIA. Albany Americus Athens Atlanta Augustus Brunswick Columbus Cordele Dalton Dublin Elberton	4,008 6,398 8,639 65,533 33,300 8,459 17,303 1,578 3,046 862 1,572	4,606 7,674 10,245 89,872 39,441 9,081 17,614 3,473 4,315 2,987 3,834	8,190 8,063 14,913 154,839 41,040 10,182 20,554 5,883 5,324 5,795 6,483
Fitzgerald, Gainesville. Griffin. La Grange. Macon. Marietta. Newnan. Rome. Savannah. Thomasville. Valdosta. Wayeross.	3,202 4,503 3,090 22,746 3,384 2,859 6,957 43,189 5,514 2,854 3,364	1,817 4,382 6,857 4,274 23,272 4,446 3,654 7,291 54,244 5,322 5,613 5,919	5,795 5,925 7,478 5,587 40,665 5,949 5,548 12,099 65,064 6,727 7,656 14,485
IDAHO. Boise Coeur D'Alene Lewiston Pocatello Twin Falls. ILLINOIS.		5,957 508 2,425 4,046	17,358 7,291 6,043 9,110 5,258
Alton. Aurora. Beardstown. Belleville. Belvidere. Berwyn.	4,226	14,210 24,147 4,827 17,484 6,937	17,528 29,807 6,107 21,122 7,253 5,841
Bloomington Blue Island Cairo. Canton Carbondale Centralia. Champaign Charleston. Chicago Chicago Heights	3,329 10,324 5,604 2,382 4,763 5,839 4,135 1,099,850	23,286 6,114 12,566 6,564 3,318 6,721 9,098 5,488 1,698,575 5,100	25,768 8,043 14,514 10,453 5,411 9,680 12,421 5,884 2,185,283 14,525
Ciero. Clinton Collinsville Danville Decatur Dekalb	2,598 3,49 8	4,452 4,021 16,354 20,754 5,904	14,557 5,165 7,478 27,871 31,140 8,102

CITIES.	1890.	1900.	1910.
Crawfordsville	6,089 1,255 11,360 2,284 50,756 35,393 5,919	6,649 3,411 15,184 12,960 59,007 45,115 7,100	9,371 19,098 19,282 11,028 69,647 63,933 8,634
Gary. Goshen Greensburg Hammond Hartford Huntington Indianapolis Jeffersonville	6,033 3,596 5,428 2,287 7,328 105,436 10,666	7,810 5,034 12,376 5,912 9,491 169,164 10,774	16,802 8,514 5,420 20,925 6,187 10,272 233,650 10,412 17,010
Kokomo Lafayette. Laporte. Lebanon Linton. Logansport. Madison. Marion	10,666 8,261 16,243 7,126 3,682 958 13,328 8,936 8,769	10,609 18,116 7,113 4,465 3,071 16,204 7,835 17,337	20,081 10,525 5,474 5,906 19,050 6,934 19,359
Michigan City Mishawaka Mount Vernon Muncie New Albany New Castle Noblesville	8,769 10,776 3,371 4,705 11,345 21,059 2,697 3,054 7,028	14,850 5,560 5,132 20,942 20,628 3,406 4,792 8,463	19,027 11,886 5,563 24,005 20,629 9,446 5,073 10,910
Portland Princeton Richmond Seymour Shelbyville South Bend Terre Haute Valpareiso	5,337 5,451 21,819	4,798 6,041 18,226 6,445 7,169 35,999 36,673 6,280	5,130 6,448 22,324 6,305 9,500 53,684 58,157 6,987
Vincennes. Wabash. Washington. Whiting. Boone.	8,853 5,105 6,064 1,408	10,249 8,618 8,551 3,983	14,895 8,687 7,854 6,587
Burlington Cedar Falls Cedar Rapids Centerville Charles City Clinton Council Bluffs Creston Davenport	18,020 3,668 2,802 13,619 21,474 7,200 26,872	23,201 5,319 25,656 5,256 4,227 22,698 25,802 7,752 35,254	24,324 5,012 32,811 6,936 5,892 25,577 29,292 6,924 43,028
Des Moines. Dubuque. Fort Dodge. Fort Madison Grinnell. Iowa City.	30,311 4,871 7,901	62,139 36,297 12,162 9,278 3,860 7,987	86,368 38,494 15,543 8,900 5,036 10,091

CITIES.	1890.	1900.	1910.
Keokuk Marshalltown Mason Muscatine Oelwein Oskaloosa Ottumwa Sioux City Waterloo Webster	14,101 8,914 4,007 11,454 830 6,558 14,001 37,806 6,674 2,829	14,641 11,544 6,746 14,073 5,142 9,212 18,197 33,111 12,580 4,613	14,008 13,374 11,230 16,178 6,028 9,466 22,012 47,828 26,693 5,208
KANSAS.	0.045	0.110	
Arkansas City Atchison Chanute Coffeyville Emporia Fort Scott Galena Hutchinson Independence Iola Junction City Kansas City Lawrence Leavenworth Manhattan Newton Ottawa Parsons Pittsburg Rosedale Salina Topeka Wellington Wichita Winfield	8,347 13,963 2,826 2,282 7,551 11,946 2,496 8,682 3,127 1,706 4,502 88,316 9,997 19,768 3,004 5,605 6,248 6,736 6,697 2,276 6,149 31,007 4,391 23,853 5,184	6,140 15,722 4,208 4,953 8,233 10,322 10,155 9,379 4,695 51,413 10,862 20,725 3,438 6,208 6,984 7,692 10,112 3,270 6,074 33,608 4,245 24,671 5,554	7,508 16,429 9,272 12,687 9,058 10,463 10,463 6,096 16,364 10,480 5,032 5,598 82,331 12,374 19,363 5,722 7,862 7,865 12,463 14,755 5,960 9,688 43,684 7,034 52,450 6,700
KENTUCKY.			
Ashland. Bellevue Bowling Green Covington Danville Dayton Frankfort Henderson Hopkinsville Lexington Louisville Mayfield Maysfiel Middlesboro Newport Owensboro Paducah Paris Richmond Winchester	4,195 3,163 7,803 37,371 3,766 4,264 7,892 8,835 5,833 21,567 161,129 2,909 5,358 3,271 24,918 9,837 12,797 4,218 5,073 4,519	6,800 6,332 8,226 42,938 4,285 6,104 9,487 10,272 7,280 26,269 204,731 4,081 6,423 4,162 28,301 13,189 19,446 4,663 4,663 5,964	8,688 6,683 9,173 53,270 5,420 6,979 10,465 11,452 9,419 35,099 223,928 5,916 6,141 7,305 30,309 16,011 22,760 5,889 5,340 7,156

CITIES.	1890.	1900.	1910.
LOUISIANA.			
Alexandria	2,861	5,648	11,213
Baton Rouge	10,478	11,269	14,897
Crowley	420	4,214	5,099
Houma	1,200	4,214 3,212	5,024
Lafayette	2,106	3,314	6,392
Lake Charles	3,442	6,660	11,449
Monroe	3,256	5,428	10,209
Morgan	2,291	2,332	5,477
New Iberia	3,447 242,039	6,615 287,104	7,499 339,075
New Orleans	11,979	16,013	28,015
	11,010	10,010	20,020
MAINE.	11 050	10.051	15,064
Auburn	11,250 10,527	12,951 11,683	
Bangor	19,103	21, 8, 0	13,211 24,803
Bath	8,723	10,477	9,396
Biddeford	14,443	16,145	17,079
Brewer	4,193	4,835	5,667
Brunswick (City)	6,012	6,806	6,621
Brunswick (Village)		5,210	5,341
Calais	7,290 4,087	7,655	6,116
Caribou:	4,087	4,758	5,377
Gardiner	5,491	5,501	5,311
Houlton	4,015	4,686	5,845
Lewiston	21,701 5,312	23,761 5,736	26,247 6,316
Old Town	36,425	5 0,145	58,571
Presque Isle	3,046	3,804	5,179
Rockland	8.174	8,150	8,174
Rumford (City)	898	3,770	6,777
Rumford Falls (Village)		2,595	5,427
Saco	0,019	6,122	6,583
Sanford	4,201	6,078	9,049
Skowhegan	5,068	5,180	5,341
South Portland	7 407	6,287	7,471
Waterville	7,107	9,477	11,458 8,281
Westbrook	6,632	7,283	0,401
MARYLAND.	PT 004	0.505	0.000
Annapolis		8,525 508,957	8,609 558,485
Baltimore	402,409	5,747	6,407
Cumberland	4,192 12,729	17,128	21,839
Frederick	8,193	9,296	10,149
Frostburg		5,374	6,028
Hagerstown	10,118	13,591	16,507
Salisbury	2,905	4,277	6,690
MASSACHUSETTS.			
Abington	4,260	4,489	5,455
Adams	9,213	11,134	13,026
Amesbury	9,798	9,473	9,894
Amhurst	4,512	5,028	5,112
Andover	6,142	6,813	7,301
Arlington	5,629	8,603	11,187
Attlohom	6,319	7,061	8,536
AttleboroBelmont	7,577 2,098	11,335 3,929	.16,215 5,542
Beverly		13.884	18,650
Blackstone		5,721	5.648
	0,200	0,101	0,010

CITIES.	1890.	1900.	1910.
Boston	448,477	FC0 000	250 505
Braintree	4,848	560,892	670,585
Bridgewater	4,848	5,981	8,066 7,688
Brockton	4,249 27,294	5,806	7,088
Brookline	12,103	40,063	56,878
Cambridge	70,028	19,935 91,886	27,792
Chelmsford	2 605	3,984	104,839
Chelsea	2,695 27,9 09	34,072	5,010
Chicopee	14,050	19,167	32,453 25,401
Clinton	10,424	13,667	13,075
Concord	4,427	5,652	6,421
Danvers	7,454	8,542	9,407
Dedham	7,123	7,457	9,284
Easthampton	4,394	5,603	8,524
Easton	4,493	4.837	5.139
Everett	11,068	24,336	33,484
Fairhaven	2,919	3,567	5,122
Fall River	2,919 74.398	104,863	119,293
Fitchburg	22,037	31,531	37,826
Framingham	9,239	11,302	12,948
Franklin	4,831	5,017	5,641.
Gardner	8,424	10,813	14,699
Gloucester	24,651	26,121	24,398
Grafton	5,002	4,869	5,705
Great Barrington	4,612	5,854	5,926
Greenfield	5,252	7,927	10,427
Haverhill	27,412	7,927 37,175	44,115
Holyoke	35,637	45,712	57,730
Hudson	4,670	5,454	6,743
Hyde Park	10,193	13,244	15,507
(pswich	4,439	4,658	5,777
Lawrence	44,654	62,559	85,892
Leominister	7,269	12,392	17,580
Lowell	77,696	94,969	106,294
Lynn	55,727	68,513	89,336
Malden	23,031	33,664	44,404
Mansfield	3,432	4,006	5,183
Marblehead	8,202	7,582	7,338
Marlboro	13,805	13,609	14,579
Maynard	2,700 11,079	3,142	6,390
Medford	11,079	18,244	23,150
Melrose	8,519	12,962	15,715
Methuen	4,814	7,512	11,448
Middleboro	6,065	6,885	8,214
Milford	8,780	11,376	13,055
Milton	4,278 6,296	6,478 6,150	7,924
Montague	9,118	9,488	6,866 9,866
Natick	3,035	4,016	
Veedham		62,442	5,026 96,652
New Bedford	40,733 13,947	14,478	14,949
Yewburyport	24,379	33,587	39,806
Vewton	16,074	24,200	22.019
North Adams	3,742	4,243	5,529
North Andover	6,727	7,253	9,562
Jorth Attleboro	14,990	18,643	19,431
Northampton	4,603	7,036	3,807
Vorthbridge	3,733	5,480	8,014
Norwood	4,568	5,520	5,282
range	6,520	7,801	8,610
almer	0,020	1,001	0,410

CITIES.	1890.	1900.	1910.
Peabody	10,158	11,523	15,721
Pittsfield	17,281 7,314	21,766	32,121
Plymouth	7,314	9,592	12,141
Quincy	16,733	23,899	32,642
Reading	4,088	4,969	5,818
Revere	5,668	10,395	18,219
Rockland	5,213	5,327	6,928
Salem	30,801	35,956	43,697
Saugus	3,673	5,084	8,047
Somerville	40,152	61,643	77,236
Southbridge	7,655 8,747	10,025	12,592 6,740
Spencer	8,141	7,627	0,140
Springfield	44,179	62,059 6,197	88,926
Stoneham	6,155 4,152	5,442	7,090 6,316
Stoughton	3,198	4,548	6.204
Swampscott Taunton	25,448	31,036	6,204 34,259
Wakefield	6,982	9,290	11,404
Waltham	18,707	23,481	27,834
Ware	7,329	8,263	8 774
Watertown	7,073	9,706	8,774 12,875
Webster	7,031	8,804	11,509
Welleslev	3,600	5,072	5,413
Wellesley West Springfield	5,077	7,105	9,224
Westboro	5,195	5,400 1	5,446
Westfield	9,805	12,310	16,044
Weymouth	10,866	11,324	12,895 7,292
Whitman	4,441	6,155	7,292
Winchendon	4,390	5,001	5,678
Winchester	4,861	7,248	9,309
Winthrop	2,726	6,058	10,132
Woburn	13,499	14,254	15,308
Worcester	84,655	118,421	145,986
MICHIGAN. Adrian	8,756	9,654	10,763
Albion	3,763	4,519	5,833
Alpena	11,283	11,802	12 706
Ann Arbor	9,431	14,509	12,706 14,817
Battle Creek	13,197	18,563	25,267
Bay City	27,839	27,628	45,166
Benton Harbor	3,692	6,562	9,185
Boyne City	450	912	5,218
Cadillac		5,997	8,375
Cheboygan	6,235	6,489	6,859
Coldwater	5,247	6,216	5,945
Detroit		285,704	465,766
Dowagiac	2,806	4.151	5,088
Escanaba	6,808	9,549	13,194
Flint.	9,803	13,103	38,550
Grand Haven		4,743	5,856
Grand Rapids	60,278	87,565	112,571
Hancock.	1,772 3,915	4,050	8,981
Hillsdale	3,915	4,151	5,001
Holland	3,945	7,790	10,490
Houghton	2,062	3,359	5,113
Ionia		5,209	5,030
Iron Mountain	8,599	9,242 9,705	9,216 12,821
Ironwood	7,745	12 255	12,821
Jackson	11,197 20,798	13,255 25,180	12,448 31,433

CITIES.	1890.	1900.	1910.
Kalamazoo	17,853	24, 404	39,437
Lansing	13,102	16,485	31,229
LauriumLudington	1,159	5,643	8,537
Manistee	7,517 12,812	7,166 14,260	9,132 12,381
Marquette	9,093	10,058	14,381
Menominee	10,630	12,818	10,507
Monroe		5,043	6,893
Mt. Clemens		6,576	7,707
Negaunee	22,702 6,078	20,818 6,935	24,062 8,460
Niles	4,197	4,287	5,156
Owosso	6,564	8,696	9,635
Pontiac	6,200	9,769	14,532
Port HuronSaginaw		19,158	18,863
St. Joseph	46,322	42,345 5,155	50,510
Sault Ste. Marie	. 5,760	10,538	5,936 12,615
Three Rivers	3,131	3,550	5,072
Traverse		9,407	12,115
Wyandotte		5,183	8,287
Ypsilanti	6,129	7,378	6,230
Albert LeaAlbert Lea	3,305	4,500	6.192
Austin	3,901	5,474	6,960
Bemidji	1	2,183	5,099
Brainerd		7,524	8,526
Chisholm		2.070	7,684
Cloquet	3,457	3,072 5,359	7,031 7,559
Duluth	33,115	52,969	78,466
Faribault	6.520	7,868 6,072	9,001
Fergus Falls	. 3,772	6,072	6,887
HibbingLittle Falls	2.354	2,481	8,832
Mankato	2,304	5,774 10,599	6,078 10,365
Minneapolis	8,838 164,738	202,718	301,408
New Ulm	. 3,741	5,403 i	5,648
Owatonna		5,561	5,658
Redwing	6,294	7,525	9,048
RochesterSt. Cloud	5,321 7,686	6,843	7,844 10,600
St. Paul		8,663 163,065	214,744
Stillwater	. 11,260	12,318	10,198
Virginia Winona		2,962	10,473
	. 18,208	19,714	18,583
MISSISSIPPI.	2 024	E 407	7 000
Biloxi	3,234 2,142	5,467 2,678	7,988 5,293
Brookhaven Columbus		6.484	8,988
Corinth	2,111	3,661	5,020
Greenville	6,658	3,661 7,642	9,610
Greenwood	1,055	3,026	5,836
Hattiesburg	1,172	4,175 1,060	11,733 6,386
Gulfport	5,920	7.816	21,262
Laurel		3,193	8,465
McComb	2,383	4,477	6,237
Meridian	.] 10,624	14,054	23,285
Natchez	10,101	12,210	11,791

CITIES.	1890.	1900.	1910.
Vicksburg	13,373 3,286	14,834 4,944	20,814 6,796
Brookfield	4,547 4,297 7,981 5,717 4,000	5,484 4,815 9,416 6,905 5,651	5,749 8,475 9,483 6,265 9,662
Flat River. Fulton Hannibal Independence. Jefferson	4,314 12,857 6,380 6,742	4,883 12,760 6,974 9,664	5,112 5,228 18,341 9,859 11,850
Joplin Kansas City Kirksville Lexington Mexico	9,945 132,716 3,510 4,537	26,023 163,752 5,966 4,190 5,099	32,073 248,361 6,347 5,242 5,939
Moberly. Nevada Poplar Bluff. St. Charles.	8,215 7,262 2,187 6,161	8,012 7,461 4,321 7,982	10,923 7,176 6,916 9,437
St. Joseph. St. Louis. Sedalia. Springfield. Trenton.	52,324 451,770 14,068 21,850 5,039	102,979 575,238 15,231 23,267 5,396	77,403 687,029 17,822 35,201 5,656
Webb City. Webster. Wellston. MONTANA.	5,043 1,783	9,201 1,895	11,817 7,080 7,312
Anaconda. Billings. Bozeman Butte. Great Falls. Helena.	836 2,143 10,723 3,979	9,453 3,221 3,419 30,470 14,930 10,770	10,134 10,031 5,107 39,165 13,948 12,515
Kalispel. Livingston. Missoula. NEBRASKA.	2,850	2,526 2,778 4,366	5,549 5,359 12,369
Beatrice	3,134 2,630	7,875 3,522 3,140 7,241 7,554	9,356 5,014 5,294 8,719 10,326
Hastings. Kearney Lincoln Nebraska City. Norfolk	13,584 8,074 55,154 11,941	7,188 5,634 40,169 7,380	9,333 6,202 43,973 5,488
Omaha. South Omaha. York. NEVADA.	140,452 8,062	3,883 102,555 26,001 5,132	6,025 124,096 26,259 6,235
Reno	3,562	4,500	10,867
Berlin. Claremont.	3,729 5,565	8,886 6, 498	11,780 7,529

			
CITIES.	1890.	1900.	1910.
Concord Derry Dover Franklin Keene Laconia Lebanon Manchester Nashua Portsmouth Rochester Somersworth	17,004 2,604 12,790 4,085 7,446 6,143 3,763 44,126 19,311 9,827 7,396 6,207	19,632 3,583 13,207 5,846 9,165 8,042 4,965 56,987 23,898 10,637 8,466 7,023	21,497 5,123 13,247 6,132 10,068 10,183 5,718 70,063 26,005 11,269 8,868 6,704
Asbury Park Atlantic City Bayonne Bloomfield Bridgeton Burlington Camden Dover East Orange Elizabeth Englewood Garfield Gloucester Guttenberg Hackensack Hammonton Horington Jersey City Kearney Long Branch Millville Mt. Clair Morristown Newark North Plainfield Nutley Orange Passaic Paterson Perth Amboy Phillipsburg Plainfield Princeton Rel Weden	13,055 19,033 7,708 1i,424 7,264 58,313 13,282 37,764 1,028 6,564 1,947 6,004 3,833 8,388 43,648 163,003 7,231 10,002 8,656 8,166 181,830 18,603 2,007 18,844 13,028 78,347 9,512 8,644 11,267 3,422 7,105 4,145	4,148 27,838 32,722 9,668 13,913 7,392 75,985 5,938 21,506 52,130 6,253 3,504 6,840 3,825 9,443 3,481 10,596 59,364 6,526 206,433 10,896 8,872 10,583 13,962 11,267 246,070 246,070 246,070 246,070 246,070 27,777 105,171 17,699 10,062 15,369 3,889 7,935 5,428	10,150 46,150 46,150 55,545 15,070 14,209 8,336 94,538 7,463 34,371 73,409 9,924 10,213 9,462 9,462 5,647 14,050 14,498 70,334 14,498 12,507 13,298 12,451 121,507 237,469 23,388 6,117 6,009 29,639 54,773 125,600 12,507 13,903 20,550 5,136 9,337 7,398
Red Bank. Ridgewood. Rosevelt. Rutherford. Salem. Somerville. South Amboy. South Orange. Summit. Trenton.	2,293 5,516 3,861 4,380 3,106 3,502 57,458	2,685 4,411 5,811 4,843 6,349 4,603 5,302 73,307	5,416 5,786 7,045 6,614 5,060 7,007 6,014 7,500 96,815

CITIES.	1890.	1900.	1910.
Union. Vineland. Westfield. West Hoboken. West New York. West Orange.	10,643 3,822 11,665 4,358	15,187 4,370 23,094 5,267 6,889	21,023 5,282 6,420 35,403 13,560 10,980
NEW MEXICO. Albuquerque. Roswell. Santa Fe. NEW YORK.	3,785 6,185	6,238 2,006 5,603	11,020 6,172 5,072
Albany Ams'erdam Aub Albion Binghan n Buffalo Batavia. Cohoes Corning Cortland Canandaigua Catskill Dunkirk Elmira Fulton Fredonia Geneva Glens Fails Gloversville Hornell Hudson Haverstraw Herkimer Hoosick Falls Hudson Falls Ithaca Ilion Jamestown Johnstown	94,923 17,336 25,858 4,586 35,006 255,664 7,321 22,509 8,550 8,590 8,590 4,920 9,416 30,893 4,214 3,399 7,557 9,509 13,864 10,996 9,970 5,070 7,014 2,895 11,079 4,057 11,079 4,057 11,079 4,057 16,038 7,768	94,151 20,929 30,345 4,477 39,647 382,387 9,180 23,910 11,061 9,014 16,151 5,484 11,616 35,672 5,281 4,127 10,433 12,613 18,349 11,918 9,528 5,935 5,555 5,671 4,473 13,136 6,138 22,892 10,130	100,253 31,267 34,668 5,016 48,443 423,715 11,613 24,709 13,730 11,504 7,217 5,296 17,221 37,176 10,490 5,285 12,446 15,243 20,642 13,617 11,617 15,669 7,520 15,669 7,520 14,802 6,538 14,802 6,538 14,802 6,538 14,802 6,538
Kingston. Lackawayna. Little Falls. Lockport. Middletown. Mount Vernon. Malone.	8,783 16,038 11,977 10,830 4,986	24,535 10,381 16,581 14,522 21,228 5,935	25,908 14,549 12,273 17,970 15,313 30,919 6,467
Mamaroneck Matteawan Mechaniosville. Medina. Newburg. New Rochelle New York. Niagara Falls. North Tonawanda. North Terrytown Norwich. Ogdensburg. Odean.	4,278 2,679 4,492 23,087 9,057 2,507,414 4,793 3,179 5,212 11,662 7,358	5,807 4,695 4,716 24,943 14,720 3,437,202 19,457 9,069 4,241 5,766 12,633 9,462	5,699 6,727 6,634 5,683 27,805 28,867 4,766,833 30,445 11,955 5,421 7,422 15,933 14,743

CITIES.	1890.	1900.	1910.
Oneida Oneonta Oswego Ossining Plattsburg Port Jervis Poughkeepsie Peekskill Port Chester Rensselaer Rensselaer Rochester Rome Schenectady Syracuse Salamanca Saratoga Springs Seneca Falls Solvay Tonawanda Troy Terrytown Utica Watertown Watervliet White Plains Yonkers	6,083 6,272 21,842 9,352 7,010 9,327 22,206 9,676 5,274 7,301 133,896 14,991 19,902 88,143 3,692 11,975 6,116 563 7,145 60,956 3,562 44,007 4,00	6,364 7,147 72,199 7,939 8,434 9,385 24,029 10,358 7,446 162,608 15,343 31,682 108,374 4,251 12,409 6,519 3,493 7,421 60,651 4,770 56,383 21,696 14,321 7,899 47,931	8,317 9,491 23,369 11,480 11,138 9,567 27,936 15,245 12,809 10,711 218,149 20,497 72,826 137,249 5,792 12,693 6,588 5,139 6,588 5,139 6,588 5,139 6,588 5,139 6,588 5,139 6,588 5,139 6,588
NORTH CAROLINA. Asheville. Charlotte. Concord. Durham. Elizabeth. Fayetteville. Gastonia. Coldsboro. Greensboro. High Point. Kinston. Newberne. Raleigh. Rocky Mount. Salem. Salisbury. Washington. Wilmington. Wilson. Winston.	10,235 11,557 4,389 5,485 3,251 4,222 1,033 4,017 3,317 1,726 7,843 12,678 816 2,711 4,418 3,545 20,056 2,126 8,018	14,694 18,091 7,910 6,679 6,348 4,670 4,610 5,877 10,035 4,103 4,106 9,090 13,643 2,937 3,642 20,978 3,525 10,008	18, 762 34, 014 8, 715 18, 241 8, 412 7, 045 5, 759 6, 107 15, 895 9, 525 6, 995 9, 961 19, 218 6, 051 5, 533 7, 153 6, 211 25, 749 6, 717 17, 167
NORTH DAKOTA. Dismarck. Devils Lake. Fargo. Grand Forks. Minot.	2,186 846 5,664 4,979 575	3,319 1,729 9,589 7,652 1,277	5,443 5,157 14,331 12,478 6,188
Akron	27,601 7,607 3,566 8,338 2,620	42,728 8,974 4,087 12,949 3,066	69,067 15,083 6,795 18,266 5,463

Barberton	Barberton				
Bellaire 9,934 9,912 12,946 Bellevue 3,052 4,101 5,209 Bowling Green 3,467 5,067 5,222 Bowling Green 3,467 5,067 5,222 Bowling Green 3,467 6,560 8,122 Cambridge 43,470 5,422 6,621 Canton 26,189 30,667 50,217 Chillicothe 11,288 12,976 14,508 Cinceinnati 2286,908 325,902 363,581 Circleville 6,556 6,991 6,745 Cleveland 281,333 381,768 560,663 Cleveland 3,672 6,473 8,60 Conneaut 3,672 6,473 8,60 Coshocton 3,672 6,473 8,60 Dayton 61,320 85,333 116,577 Delphos 4,516 4,517 5,038 East Liverpool 10,956 16,485 20,387 Eijindlay 18,2	Bellaire 9,934 9,912 12,946 Bellefoutaine 4,245 6,649 8,238 Bellevue 3,052 4,101 5,209 Bowling Green 3,667 5,067 5,222 Bucyrus 5,974 6,560 8,122 Cambridge 4,361 8,241 11,327 Canal Dover 3,470 5,422 6,621 Canton 26,189 30,667 50,217 Canicinati 286,908 325,902 363,591 Cincininati 286,908 325,902 363,591 Circleville 6,556 6,991 6,745 Cleveland 281,333 331,768 560,663 Columbus 88,150 125,560 181,511 Conneaut 3,241 7,133 8,319 Coshocton 3,672 6,473 9,603 Dayton 61,320 85,333 116,577 Delphos 4,516 4,517 5,793 7,227 Delaware <th>CITIES.</th> <th>1890.</th> <th>1900.</th> <th>1910.</th>	CITIES.	1890.	1900.	1910.
		Barberton Bellaire. Belleire. Bellefontaine Bellevue Bowling Green Bucyrus Cambridge Canal Dover Canton Chillicothe Cincinnati Circleville Cleveland Columbus Conneaut Coshocton Dayton Defiance Delphos East Cleveland East Liverpool Elyria. Findlay. Fostoria Fremont Gallipolis Greenville Hamilton Ironton Jackson Kenton Lakewood Lancaster Lima Loraine Madisonville Mansfield Marietta Marion Martins Ferry Massillon Middletown Mt. Vernon Nelsonville New Philadelphia Newark Newburgh Niles Norwaod Painesville Piqua Portsmouth Ravenna St. Bernard St. Marys Salem	9, 934 4, 245 3, 052 3, 467 5, 974 4, 361 3, 470 26, 189 11, 288 296, 908 6, 556 261, 353 88, 150 3, 241 3, 672 61, 320 7, 694 8, 224 4, 516 5, 611 18, 553 17, 565 10, 939 4, 320 5, 557 7, 555 15, 981 4, 863 2, 214 13, 473 8, 273 8,	4,354 9,912 6,649 4,101 5,067 6,560 8,241 15,422 30,667 12,976 325,902 6,991 381,768 125,560 7,133 6,473 85,333 7,579 7,940 4,517 2,757 16,485 8,791 17,613 7,730 8,439 7,282 5,542 11,868 4,672 6,852 3,355 8,991 21,723 16,028 3,140 17,640 11,944 9,215 6,633 11,862 17,760 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,633 11,944 9,215 6,213 18,157 5,024 11,7370 1,463 11,7370 1,463 11,772 17,870 4,403 3,384 5,359	9,410 12,946 8,238 5,209 5,222 11,327 6,621 50,217 14,508 363,591 6,745 560,663 181,511 8,319 9,603 116,577 7,327 9,076 5,038 9,179 20,387 14,825 14,825 14,825 15,181 13,093 30,508 28,883 20,768 12,923 13,147 5,185 15,181 13,093 30,508 28,883 20,768 12,923 13,147 5,468 7,185 15,181 13,093 30,508 28,883 20,768 12,923 13,232 13,879 13,152 29,087 6,082 29,132 13,879 13,155 15,181 13,879 13,152 15,813 16,885 16,185 16,185 16,185 16,181 17,858

CITIES.	1890.	1909.	1910.
Sidney. Springfield. Steubenville. Tiffin. Toledo. Troy. Urbana. Van Wert Wapakoneta. Warren. Washington Courthouse Wellsville. Wooster. Xenia. Youngstown. Zanesville.	4,850 31,895 13,394 10,801 81,434 4,494 6,510 5,512 3,616 5,973 5,742 4,377 5,247 5,901 7,301 3,220 21,009	5,688 38,253 14,349 10,989 131,822 5,831 6,808 6,422 3,915 8,529 5,751 8,045 6,146 6,063 8,696 44,885 23,538	6,607 46,921 22,391 11,894 168,497 6,122 7,739 7,157 5,349 11,081 7,277 6,875 7,769 6,136 8,706 79,066 22,026
OKLAHOMA. Ardmore. Bartlesville. Chickasha. Durant. El Reno. Enid. Guthrie. Lawton. McAlester Muskogee. Oklahoma City. Sapulpa. Shawnee. Tulsa. OREGON.	285 5,333 4,151	5,681 698 3,209 2,969 3,383 3,444 10,006 4 254 10,037 891 3,462 1,390	8,618 6,181 10,320 5,330 7,872 13,799 11,654 7,788 12,954 25,278 64,205 8,233 12,474 18,182 5,020
Astoria Baker City Eugene Medford Portland Salem PENNSYLVANIA	6,184 2,604 3,958 967 46,385	8,381 6,663 3,236 1,791 90,426 4,258	9,599 6,742 9,009 8,840 207,214 14,094
Altoona	25,228 30,337	35,416 38,973	51,913 52,127
Ambridge Archbald Ashland Ashland Ashley Bangor Beaver Falls Believue Berwick Bethlehem Blakely Bloomsburg Braddock Braddock Bradford Bristol Butler Carbondale.	4,032 7,346 3,192 2,509 9,735 1,418 2,701 9,521 2,452 4,635 8,761 10,514 6,553 8,734 10,833	5,396 6,438 4,046 4,106 10,054 3,416 3,916 10,758 3,915 6,170 15,654 15,029 7,104 10,853 13,536	5,205 7,194 6,355 5,601 5,369 12,191 6,223 5,257 12,837 5,345 7,413 19,357 14,544 9,256 20,728 17,040

CITIES.	1890.	1900.	1910.
Carlisle		9,626 7,330	10,303 10,009
Carrick. Catasauqua Chambersburg. Charleroi		3,963 8,864 5,930	6,117 5,250 11,800 9,615
Chester	20,226 2,248	33,988 5,081	38,537 6,851 5,154
Coatesville	3,680 10,599 5,629 5,470	5,721 12,316 7,160 5,762	11,084 11,454 12,845 7,480
Coraopolis	962 5,677 7,998	2,555 5,369 8,042	5,252 5,991 7,517
Darby Dickson Donora Dikkir	2,972 3,11 0	3,429 4,948	6,305 9,331 8,174
Dubois. Dunmore. Duquesne. Duryea.	8,315	9,375 12,583 9,036 5,541	12,623 17,615 15,727 7,487
East Conemaugh East Pittsburg Easton	1,158 14,481	2,175 2,883 25,238	5,046 5,615 28,523
Edwardsville Erie. Etna Forest City	40,634	5,165 52,733 5,384 4,279	8,407 66,525 5,830
Franklin. Freeland. Gilberton.	6,221 1,730	7,317 5,254 4,373	5,749 9,767 6,197 5,401
Glassport	4,194 4,202	6,746 6,508	5,540 9,058 13,012
Greenville	3,746	4,814 5,302 50,167 14,230	5,909 7,057 64,186 25,452
Homestead. Huntingdon. Indiana	7,911 5,729 1,963	6,053 4,142	18,713 6,861
Jeannette	1,853 21,805	5,865 3,070 35,936	5,749 8,077 5,381 55,482
Juniata. Kane- Kingston- Knoxville-	2,944 2,381	1,709 5,296 3,846 3,511	5,285 6,626 6,449
Lancaster	32,017	41,549 4,888	5,651 47,227 8,321 9,288
Latrobe. Lebanon. Lehighton.	14,664	4,614 17,628 4,629	8,777 19,240
Lewistown. Lock Haven Luzerne. McKees Rocks.	7,358 2,398	4,451 7,210 3,817	5,316 8,166 7,772 5,426
MCIECS RUCKS	1.56.	6,352	14,702

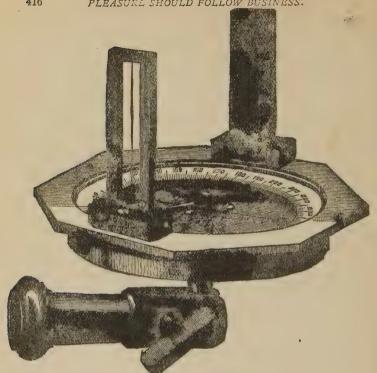
CPTIES.	1890.	1900.	1910.
McKeesport Mahanoy City Meadville	11.286	34,227 13,504	42,694 15,936 12,780
Middletown Millvale	5,080 3,809	10,291 5,608 6,736	5,374 7,861
Milton Minersville Monessen.	3,504	6,175 4,815	7,466 7,240 11,775
Monongahela Mt. Carmel	4,096 8,254	2,197 5,173 13,179	7,598 17,532
Mt. Pleasant Munhall Nanticoke	10.044	12,116	5,812 5,185 18,877
New Brighton New Castle New Kensington	11,600	6,820 28,339 4,665	8,329 36,286
Norristown North Braddock	19,791	22,265 6,535	7,707 27,875 11,824
Northampton	10,932	13,264 5,630	8,729 15,657 11,324 8,505
Olyphant Philadelphia Phoenixville	8,514	6,180 1,293,697 9,196	8,505 1,549,008 10,743
PittsburgPittstonPlymouth	238,617 10,302	321,616 12,556 13,649	533,906 16,267 16,996
PottstownPottsville	13,285	13,696 15.710	15,599 20,236
Rankin Reading Ridgeway	58,661 1,903	3,775 78,961 3,515	6,042 96,071 5,408
Rochester	3,649	4,688	5,903 5,640 6,455
t. Marys] 1,745	4,295 5,243 4,261	6,346 6,426 5,456
cottdale	75,215 14,403	102,026 18,202 8,996	129,867 19,588
haronharpsburghanandoah	7,459 4,898 15,944 10,302	8,996 6,842 20,321 13,241	15,270 8,153 25,774 19,973
outh Bethlehemouth Sharonteelton	9,250 5,930	12,086 9,810	10,190 14,246 13,770
unburywissvalewoyersville		1,716 2,264 7,267	7,38 1 5,396
amaqua arentum aylor	6,054 4,627	5,472 4,215	9,462 7,414 9,060
hropp	8,073 4,705	2,204 8,244 5,847	5,133 8,533 7,176
yrone niontown Jarren	6,3 59 4,332	7,344 8,043	13,344 11,080
VashingtonVaynesboroVaynesboroVaynesboro	7,063 3,811	7,670 5 ,396	18,778 7,199 5.512

CITIES.	1890.	1900.	1910.
West Chester. West Pittston. Wilkes-Barre Wilkensburg. Williamsport. Wilmerding. Windber. Winton. York City.	8,028 3,906 37,718 4,662 27,132 419 1,797 20,793	9,524 5,846 51,721 11,886 28,757 4,179 3,425 33,708	11,767 6,848 67,105 18,924 31,860 6,133 8,013 5,280 44,750
RHODE ISLAND.			
Bristol. Warren. Coventry. Warwick. Newport. Central Falls. Cranston. Cumberland. East Providence Johnston. Lincoln. North Providence Pawtucket. Providence. Woonsocket. South Kingstown.	19,457 8,099 8,090 8,422 9,778 20,355 2,084 27,633 132,146 20,830 4,823	6,901 5,108 5,279 21,516 22,441 18,167 13,343 8,925 12,138 4,305 8,937 3,016 39,231 175,597 28,204 4,972	8,565 6,585 5,848 26,629 27,149 22,754 21,107 10,107 15,808 6,935 5,407 51,622 224,326 38,125 5,176
Westerly		7,541	8,696
SOUTH CAROLINA. Anderson Columbia Florence Georgetown Greenville Greenwood Newbury Orangeburg Rock Hill Spartanburg Sumter Union	15,353 3,395 2,895 8,607 1,326 3,020 2,964 2,744 5,544 3,865	5,498 55,807 21,108 4,647 4,138 11,860 4,824 4,607 4,455 5,485 1,395 1,395 5,673 5,400	9,654 58,833 26,319 7,057 5,530 15,741 6,614 5,028 5,906 7,216 17,517 8,109 5,623
Aberdeen. Huron. Lead City. Mitchell. Sioux Falls. Watertown. TENNESSEE.	2,581 2,217 10,177	4,087 2,739 6,210 4,055 10,266 3,352	10,753 5,791 8,392 6,515 14,094 7,010
Bristol Chattanooga. Clarksville. Cleveland. Columbia. Jackson Johnson City. Knoxville. Memphis.	29,100 7,924 2,863 5,370 10,039 4,161 22,535	5,271 30,154 9,431 3,858 6,052 14,511 4,645 32,637 102,320	7,148 44,604 8,548 5,549 5,754 15,779 8,502 36,346 131,105

CITIES.	1890.	1900.	1910.
Nashville Park City	76,168	80,865	110,364 5,126
Abilene. Amarillo. Austin. Beaumont. Brownsville. Brownwood. Cleburne. Corpus Christi. Corsicana. Dallas. Denison. El Paso. Ennis. Fort Worth. Gainesville. Galveston. Greenville. Hillsboro. Houston. Houston Heights. Laredo. Langview. Marshall. Orange.	3,194 482 14,575 3,296 6,134 2,176 3,278 4,387 6,285 38,067 10,958 2,171 23,076 6,594 29,084 4,330 2,541 27,557 11,319 2,084 7,207 3,173	3,441 1,442 22,258 9,427 6,305 3,965 7,493 4,703 9,313 42,638 11,907 15,906 4,919 26,688 7,874 37,789 6,860 5,346 44,633 800 13,429 3,591 7,855 3,835	9, 204 9, 957 29, 860 20, 640 10, 517 10, 364 8, 222 9, 749 92, 104 13, 632 9, 769 73, 312 7, 624 36, 981 4, 855 6, 115 6, 984 14, 855 5, 155 11, 452 5, 527
Palestine Paris Port Arthur San Angelo San Antonio Sherman Sulphur Springs Taylor Temple Terrell Texarkana Tyler Waco Waxahachie Weatherford Wichita Falls	37,673 7,335 3,038 2,584 4,047 2,988 2,882 6,908 14,445 3,076 3,369 1,987	53,321 10,243 3,635 4,211 7,065 6,330 5,256 8,069 20,686 4,215 4,786 2,480	3,321 10,482 11,269 7,663 10,321 96,614 12,412 5,151 10,993 7,050 9,790 10,400 26,425 6,205 5,074 8,200
UTAH. Logan Ogden Provo Salt Lake City. VERMONT. Barre Bennington Brattleboro. Burlington Burlington Montpelier Rutland	4,565 14,889 5,159 44,843 4,146 3,971 5,467 14,590 4,160	5,451 16,313 6,185 53,531 8,448 5,656 5,297 18,640 6,266 11,499	7,522 25,580 8,925 92,777 10,734 6,211 6,517 20,468 7,856 13,546
St. Albans. St. Johnsbury.	3,857	6,239 5,666	6,381 6,693

VIRGINIA				
Alexandria.	CITIES.	1890.	1900.	1910.
Alexandria.	VIRGINIA			
Bristol City		14,339	14.528	15,329
Danville				6.247
Danville	Charlottesville			6,765
Danville	Clifton Forge	1,792		5,748
Hampton	Danville	10,305		19,020
Lynchburg	Fredericksburg			5,874
Newport News	Hampton			
Norfolk	Lynchburg			
Petersburg.	Newport News	4,449		
Portsmouth		22,600		
Richmond		13 268	17 497	22 100
Roanoke		81.338		127 628
Staunton		16.129		
Suffolk. 3,354 3,827 7,008 Winchester 5,161 5,864 WASHINGTON 1,638 3,747 13,660 Bellingham 2,026 1,600 7,311 Everett 24,298 2,808 24,814 Hoquiam 1,302 2,608 8,171 North Yakima 1,535 3,154 14,082 01ympia 4,698 3,863 6,996 Seattle 42,837 80,671 237,194 Spokane 19,922 36,848 104,402 Tacoma 36,006 37,714 83,743 Vancouver 3,545 3,126 9,300 Walla Walla 4,709 10,049 10,304 WEST VIRGINIA 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,050 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,655 9,711 Grafton 3,159 5,655 9,711 Martinsburg 7,226 7,564 10,698 Morgantown 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,896 15,763 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,785 Raboo 1,786 Morgantown 1,011 1,896 15,765 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 Martinsburg 8,408 11,703 17,842 Wheeling 8,408 11,703 17,842 Wheeling 8,670 8,994 8,893 15,703 15,701 15,801 15,701 15,801 15,701 15,801 15,701 15,801 15,701 15,801 15,701 15,801 15,701 15,801 15,701 15,701 15,801 15,701 15,801 15,701 15,				
Winchester 5,196 5,161 5,864 Aberdeen 1,638 3,747 13,660 Bellingham 24,298 24,298 Centralia 2,026 1,600 7,311 Everett 7,838 24,814 Hoquiam 1,302 2,608 8,171 North Yakima 1,535 3,154 14,082 Olympia 4,698 3,863 6,996 Seattle 42,837 80,671 237,194 Spokane 19,922 36,848 104,402 Tacoma 36,006 37,714 83,743 Vancouver 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 WEST VIRGINIA 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,669 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,655 9,711 <t< td=""><td>Suffolk</td><td>3,354</td><td>3,827</td><td></td></t<>	Suffolk	3,354	3,827	
Aberdeen			5,161	
Bellingham 24,298 Centralia 2,026 1,600 7,311 Everett 7,838 24,814 Hoquiam 1,302 2,608 8,171 North Yakima 1,535 3,154 14,082 Olympia 4,698 3,863 6,996 Seattle 42,837 80,671 237,194 Spokane 19,922 36,848 104,402 Tacoma 36,006 37,714 33,743 Vancouver 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 WEST VIRGINIA 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,669 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,650 7,563 Huntington 10,108 11,923 31,161 Martinsb	WASHINGTON.			
Centralia 2,026 1,600 7,311 Everett		1,638	3,747	
Everett. 7,838 24,814 Hoquiam. 1,302 2,608 8,171 North Yakima 1,535 3,154 14,082 Olympia 4,698 3,863 6,996 Seattle 42,837 80,671 237,194 Spokane 19,922 36,848 104,402 Tacoma 36,006 37,714 33,745 Vancouver 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 WEST VIRGINIA 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,669 9,201 Elkins 737 2,016 5,650 7,563 Huntington 10,108 11,923 31,611 Grafton 3,159 5,650 7,563 Huntington 10,108 11,923 31,611 Martinsburg 7,226 7,564 10,698 Morgantown 1,011	Bellingham			24,298
Hoquiam		2,026	1,600	7,311
North Yakima			7,838	
Ölympia. 4,698 3,863 6,996 Seattle. 42,837 80,671 237,194 Spokane. 19,922 36,848 104,402 Tacoma. 36,006 37,714 83,743 Vancouver. 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 WEST VIRGINIA. 1,775 4,644 11,188 Charleston. 6,742 11,099 22,996 Clarksburg. 3,008 4,059 9,201 Elkins. 737 2,016 5,260 Fairmont. 1,023 5,656 9,711 Grafton. 3,159 5,656 9,711 Martinsburg. 7,226 7,564 10,698 Morgantown 10,108 11,923 31,161 Martinsburg. 7,226 7,564 10,698 Moundsville. 2,688 5,362 8,918 Parkersburg. 8,408 11,703 17,842 Wheeling. 34,		1,302		
Seattle 42,837 80,671 237,194 Spokane 19,922 36,006 37,714 83,743 Vancouver 36,006 37,714 83,743 Valla Walla 4,709 10,049 19,364 WEST VIRGINIA 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,060 9,201 Eikins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,656 9,711 Morgantown 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,886 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,702 4,641 Wheeling 34,522 38,878 41,641 Wheeling 4,424 5,145 7,196 Appleton				6 006
Spokane	Spattle	49 837		997 104
Tacoma. 36,006 37,714 83,743 Vancouver. 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 Bluefield. 1,775 4,644 11,188 Charleston. 6,742 11,099 22,996 Clarksburg. 3,008 4,650 9,201 Elkins. 737 2,016 5,260 Fairmont. 1,023 5,656 9,711 Grafton. 3,159 5,650 9,711 Martinsburg. 7,226 7,564 10,193 11,923 31,161 Martinsburg. 7,226 7,564 10,493 11,923 31,161 Morgantown 1,011 1,895 9,150 Moundsville. 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling. 34,522 38,878 41,641 Wheeling. 4,424 5,145 7,196 Appleton. 11,869 15,085 </td <td></td> <td></td> <td></td> <td>104 402</td>				104 402
Vancouver. 3,545 3,126 9,300 Walla Walla 4,709 10,049 19,364 WEST VIRGINIA. 1,775 4,644 11,188 Charleston 6,742 11,099 2,901 Clarksburg 3,008 4,650 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,655 9,711 Grafton 3,159 5,650 7,563 Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,895 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605			37.714	83.743
Walla Walla 4,709 10,049 19,364 WEST VIRGINIA. 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,069 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,660 7,563 Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,895 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,622 38,378 41,641 Appleton 11,869 15,085 16,773 Ashiand 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,625 5,128 6,758 Beloit 6,316 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Bluefield 1,775 4,644 11,188 Charleston 6,742 11,099 22,996 Clarksburg 3,008 4,650 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,650 7,563 Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,895 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436<	Walla Walla	4,709	10,049	
Clarksburg 3,008 4,060 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,650 9,711 Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,989 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,892 Baraboo 4,605 5,751 6,824 Beaver Dam 4,222 5,128 6,758 Beloit 6,635 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110				
Clarksburg 3,008 4,060 9,201 Elkins 737 2,016 5,260 Fairmont 1,023 5,656 9,711 Grafton 3,159 5,650 9,711 Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,989 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,892 Baraboo 4,605 5,751 6,824 Beaver Dam 4,222 5,128 6,758 Beloit 6,635 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110		1,775	4,644	11,188
Elkins	Charleston	6,742		22,996
Fairmont. 1,023 5,656 9,711 Grafton. 3,159 5,650 7,563 Huntington. 10,108 11,923 31,161 Martinsburg. 7,226 7,564 10,698 Morgantown 1,011 1,989 9,150 Moundsville. 2,688 5,362 8,918 Parkersburg. 8,408 11,703 17,842 Wheeling. 34,522 38,878 41,641 WISCONSIN. Antigo. 4,424 5,145 7,196 Appleton. 11,869 15,085 16,773 Ashland. 9,956 13,074 11,595 Baraboo 4,605 5,751 6,825 Beaver Dam 4,222 5,128 6,788 Beloit 6,815 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 </td <td></td> <td></td> <td></td> <td>9,201</td>				9,201
Gratton			2,016	5,260
Huntington 10,108 11,923 31,161 Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,895 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,593 Baraboo 4,606 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,83				9,711
Martinsburg 7,226 7,564 10,698 Morgantown 1,011 1,895 9,150 Moundsville 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN Antigo 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Bau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894				7,503
Morgantown		7 226		
Moundsville. 2,688 5,362 8,918 Parkersburg 8,408 11,703 17,842 Wheeling 34,522 38,878 41,641 WISCONSIN. 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,824 Beaver Dam 4,222 5,128 6,768 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,884 Kenosha 6,652 11,606 21,371		1 011		
Wheeling 34,622 38,878 41,641 Antigo 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,125 13,894 Kenosha 6,552 11,606 21,371			5.362	8.918
Wheeling 34,622 38,878 41,641 Antigo 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,125 13,894 Kenosha 6,552 11,606 21,371			11,703	17,842
Antigo 4,424 5,145 7,196 Appleton 11,869 15,085 16,773 Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,824 Beaver Dam 4,222 5,128 6,788 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Bau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,93 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,606 21,371				41,641
Appleton 11,869 15,085 16,773 Ashland 9,956 13,075 11,595 Baraboo 4,606 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,815 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 13,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,484 25,236 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,125 13,894 Kenosha 6,552 11,606 21,371	WISCONSIN.			
Ashland 9,956 13,074 11,595 Baraboo 4,606 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,833 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,606 21,371		4,424	5,145	7,196
Ashland 9,956 13,074 11,595 Baraboo 4,605 5,751 6,324 Beaver Dam 4,222 5,128 6,758 Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,834 Kenosha 6,652 11,606 21,377		. 11,869	15,085	16,773
Beaver Dam 4,222 5,128 6,758 Beloit. 6,315 10,436 16,125 Chippewa Falls 8,670 8,094 8,833 Eau Claire. 17,415 17,517 18,310 Fond du Lac. 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,606 21,371				11,595
Beloit 6,315 10,436 15,125 Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,696 21,371	Baraboo	4,605		
Chippewa Falls 8,670 8,094 8,893 Eau Claire 17,415 17,515 17,517 18,310 Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,125 13,894 Kenosha 6,552 11,696 21,371		4,222		
Faut Claire. 11,415 17,517 18,310 Fond du Lac. 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,606 21,371	Chippewa Falls	0,315	10,436	15,125
Fond du Lac 12,024 15,110 18,797 Grand Rapids 1,702 4,493 6,521 Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,696 21,371	Eau Claire	17 415	8,094	8,893
Grand Rapids. 1,702 4,493 6,521 Green Bay. 9,069 18,684 25,236 Janesville. 10,836 13,185 13,894 Kenosha. 6,552 11,696 21,371	Fond du Lac	12 024		
Green Bay 9,069 18,684 25,236 Janesville 10,836 13,185 13,894 Kenosha 6,552 11,606 21,371	Grand Rapids	1 702	4 402	
Janesville			18.684	25 236
Kenosha	Janesville	10,836		13,894
LaCrosse	Kenosha	6,532	11,606	
	LaCrosse	25,090		

CITIES.	1890.	1900.	1910.
Madison. Manitowoc Marinette Marshfield Menominee. Menasha Merrill Milwaukee Ncenah Oconto. Oshkosh Portage Racine Rhinelander Sheboygan South Milwaukee Stevens Point Superior. Watertown Waukesha	13,426 7,710 11,523 3,450 5,491 4,581 6,809 204,468 5,083 5,219 22,836 5,142 21,014 2,658 16,359 7,896 11,983 8,755 6,321	19,164 11,786 16,195 5,240 5,655 5,589 8,537 285,315 5,954 6,646 28,284 5,459 29,102 4,998 22,962 3,392 9,524 31,091 8,437 7,419	25,531 13,027 14,610 5,783 5,036 6,081 8,689 373,857 5,734 5,629 23,062 5,440 38,002 5,637 26,398 6,092 40,384 8,829 8,740
Waukesna Wausau West Allis	9,253	12,354	16,560 6,645
WYOMING. Cheyenne City Laramie Rock Springs Sheridan	11,690 6,388 3,406 281	14,087 8,207 4,363 1,559	11,320 8,237 5,778 8,408



A COMPASS FOR SURVEYING LAND.

HOW LAND IS SURVEYED.

- 1. HISTORY. Thomas Jefferson and Albert Gallatin are supposed to be the authors of our system of United States land surveys.
- 2. Townships. The land is first divided into squares by lines, six miles apart. These squares are called townships, and a row of townships running north and south is called a range. Townships are given proper names but for the purpose of location, they are designated by numbers.

8. PRINCIPAL MERIDIANS AND BASE LINES. First the surveyors select some prominent object or point, and drawing a straight line, north and south, through this point, make what is known as the *principal meridian line*. Then drawing a line at right angles across the *principal meridian* they establish what is called a base line. Marks on half mile apart are left on each of these lines throughout the entire length.

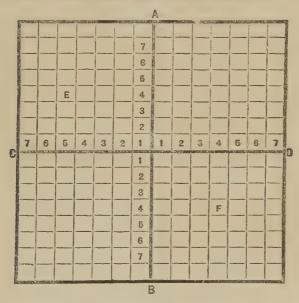


Illustration: A. B. = Principal Meridian. C. D. = Base Line. The numbers on the line A. B. mark the township lines, and the numbers on the line C. D. mark the range lines.

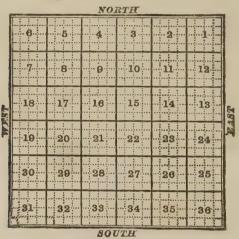
Range lines are run north and south six mites apart on both sides of the principal meridian and numbered as shown in diagram above. Township lines are run six miles apart, parallel to the base line and numbered as shown above.

Example: E. is in range 5, west, and in township 4, north;

or 30 miles west from the principal meridian and 24 miles north of the base line (each square represents a township six miles each way). F. is in range 4, east, and is in township 4, south, or 24 miles east of the principal meridian and 18 miles south of the base line.

How to Locate Land and Read and Write Descriptions.

A Township is 36 sections, each a mile square. A section is 640 acres. A quarter section, half a mile square, is 160 acres. An eighth section, half a mile long, north and south, and a quarter of a mile wide, is 80 acres. A sixteenth section, a quarter of a mile square, is 40 acres.



A TOWNSHIP WITH SECTION LINES.

- 1. United States survey ends with the location of the section lines. Marks are, however, made by the surveyors at the corners of the section and also half-mile marks between the corners. By these marks any piece of land may be accurately located.
- 2. Land is generally bought and sold in lots of 40 acres, or 30 acres, or 120 acres, or 160 acres, etc.

640 Acres.				
A	В			
C	D			
	Z	x	Y	

SEC. 25.

Example: Lots A. B. C. and D. taken together are one fourth of the entire section, and described as the N. W. & of Sec. 25.

- A. is described as N. W. 1/4 of N. W. 1/4 of Sec. 25.
- C. D. is described as S. 1/2 of N. W. 1/4 of Sec. 25.
- X. Y. is described as N. 1/2 of S. E. 1/4 of Sec. 25.
- Z. is described as N. E. 1/2 of S. W. 1/4 of Sec. 25.

N. B.—Where the government surveys cannot be used, a full description has to be written out by the county surveyor.

STATES OF THE UNION.

Governors' Terms and Salaries, Areas, Dates of Admission, Thirteen Original States, Population in 1900 and 1910, and Electoral Votes.

States and Territories. Square Sq							72 1	Elec.
Term and Salary Miles	States and Terri-			Area	When		Popula-	
Salary Miles Mil								
Arizona 4 2 3,500 113,020		Sala	ary.					
Arkansas 2	Alabama	4 yrs.			1819			11 12
California	Arizona							
Colorado	Arkansas				1836			
Connecticut	California	4				1,485,053		
Delaware	Colorado	2				539,700	779,024	0 0
Florida	Connecticut					908,355		7 7
Georgia								3 3
Idaho								10 74
Illinois	Georgia					2,216,331		
Indiana	Idaho							
Towa								
Kansas								
Kentucky								
Louisiana								
Maine 2 2,000 33,040 1820 664,466 742,371 6 6 Maryland 4 4,500 12,210 *1788 1,190,050 1,295,346 8 8 Massachusetts 1 8,000 8,315 *1788 2,805,346 3,366,416 16 18 Minnesota 2 4,000 58,915 1837 2,420,982 2,810,173 14 15 Missouri 4 3,500 46,810 1817 1,551,270 1,797,114 10 10 Missouri 4 5,000 68,735 1821 3,106,665 3,293,335 18 18 Nevalaa 2 2,500 77,510 1867 1,068,539 1,192,214 8 3 New Hampshire 2 2,000 9,305 *1788 411,588 40,572 4 4 New Hersey 3 10,000 7,815 *1787 1,883,669 2,537,167 12 14 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>								
Maryland						1,381,625		
Massachusetts								
Michigan 2 4,000 58,915 1837 2,420,982 2,810,173 14 15 Minnesota 2 5,000 83,365 1858 1,751,394 2,077,114 10 10 Mississippi 4 5,000 68,735 1821 3,106,665 3,293,335 18 18 Montana 4 5,000 146,880 1889 1,066,65 3,293,335 18 18 Nevada 2 2,500 77,510 1867 1,068,539 1,192,214 8 8 New Acada 4 4,000 101,0700 1864 42,335 48,376 3 4 New Hampshire 2 2,000 9,305 *1788 411,588 430,572 4 4 New Mexico 4 2,600 122,580 1,583 1,983,810 220,201 12,1580 1,583,810 220,202 13,014 39 45 North Carolina 4 3,000 70,795 1889								
Minnesota	Massachusetts							
Mississippi 4 3,500 46,810 1817 1,551,270 1,797,114 10 10 Missouri 4 5,000 68,735 1821 3,106,665 3,293,335 18 18 Montana 4 5,000 146,080 1889 243,329 376,053 3 4 Nevada 2 2,500 77,510 1867 1,068,539 1,192,214 8 8 New Hampshire 2 2,000 9,305 *1788 41,588 430,572 4 4 New Hexico 4 2,600 122,580 1888 41,588 699 2,537,167 12 14 New York 2 10,000 49,170 *1788 483,669 2,537,167 12 14 North Carolina 4 3,000 52,250 *1789 1,838,310 2,206,287 12 12 North Dakota 2 3,000 41,600 1802 4157,5454 4767,121 23 <	Minnesete					1 751 904	2,010,113	
Missouri 4 5,000 68,735 1821 3,106,665 3,293,335 18 18 Montana 4 5,000 146,080 1889 243,329 376,053 3 4 Nevada 4 4,000 110,700 1864 42,335 81,875 3 3 New Hampshire 2 2,600 9,305 *1788 41,588 30,572 4 4 New Jersey 3 10,000 7,815 *1787 1,883,669 2,537,167 12 14 New York 2 10,000 49,170 *1788 7,888,012 9,113,614 39 46 North Carolina 4 3,000 70,795 *1789 1,893,810 2206,287 12 12 Ohio 2 8,000 40,000 1802 4,157,545 4,767,121 23 24 Oklahoma 4 4,500 70,430 1807 790,255 1,565,7155 710 Pennsylvania <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Montana							2 909 225	
Nebraska							976 059	
New Hampshire 2 2,000 9,305 1788 41,588 43,072 44 44 48,335 44 48,335 43,672 44 48,000 10,000 7,815 1787 18,83,669 2,537,167 12 14 14 14 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 15							1 109 914	0 0
New Hampshire 2		Ä	4,000	110,700	1864	19 995	21 975	2 2
New Jersey 3	New Hampshire							
New Mexico 4						1 222 660	9 537 167	
North Carolina	New Mexico							
North Carolina	New York							
North Dakota 2 3,000 70,795 1889 319,146 577,056 4 5 5 5 5 6 4 5 5 6 4 5 5 6 4 5 5 6 6 4 5 5 6 6 4 5 5 6 6 6 6 6 6 6 6	North Carolina							
Ohio 2 8,000 41,060 1802 4,157,545 4,767,121 23 24 24 24 24 25 24 25 24 25 25				70.795	1889			
Oklahoma 4 4.500 70.430 1907 790.255 1,657.155 7 10 Oregon 4 1,500 96,303 1859 413,536 672,765 4 3 38 Pennsylvania 4 10,000 45,215 *1787 413,536 672,765 4 3 38 Philippines 15,000		2				4 157 545	4 767 121	
Oregon 4 1,500 96,930 1859 418,536 6,302,115 7,665,111 34 38 34 34 34 34 34 34								
Pennsylvania 4 10,000 45,215 *1787 6,302,115 7,665,111 34 38 Philippines 15,000 15,000 Porto Rico 8,000 428,556 542,610 4 5 5 Rhode Island 1 3,000 3,570 *1788 1,340,316 1,515,400 9 9 9 9 9 South Carolina 2 2,500 77,680 1889 401,570 583,888 4 5 Tennessee 2 4,000 265,730 1845 3,048,710 3,396,542 18 20 Texas 2 4,000 265,730 1845 3,048,710 3,396,542 18 20 Vermont 2 1,500 9,565 1791 343,641 355,956 4 Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 Washington 4 4,000 69,180 1889 518,103 1,141,990 5 7 Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Myoming 4 2,500 97,390 1890 595,531 145,965 3 3 Alaska 4 3,000 56,040 1848 2,78,718 Hawaii 4 5,000 156,040 154,000								
Philippines		4						
Porto Rico 8,000 1,250 *1790 428,556 542,610 4 5 South Carolina 2 3,500 30,570 *1788 1,340,316 1,515,400 9 9 South Dakota 2 2,500 77,680 1889 401,570 583,888 4 1 Tennessee 2 4,000 265,780 1845 3,048,710 3,896,542 18 2 Utah 4 2,000 84,900 1896 276,749 373,351 3 4 Vermont 2 1,500 9,565 1791 343,641 355,956 4 Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 West Virginia 4 2,700 24,780 1889 518,103 1,41,990 5 7 8 395,800 1,221,119 7 8 Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 </td <td></td> <td></td> <td>15,000</td> <td></td> <td></td> <td>1</td> <td>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td> <td>1</td>			15,000			1	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
South Carolina 2 3.500l 30,670l *1788 1,340,316l 1,515,400l 9 9 South Dakota 2 2,500l 77,680l 1889l 401,570l 583,888l 4 5 Tennessee 2 4,600l 42,050l 1796l 2,020,616l 2,184,789l 12l 12l Texas 2 4,000l 265,730l 1845l 3,048,710l 3,896,542l 18l 20l Vermont 2 1,500l 9,565l 1791l 343,641l 355,956l 4 Virginia 4 5,000l 42,450l *1788l 1,854,184l 2,061,612l 12l 12l Wisconsin 2 2,700l 24,780l 1863l 958,800l 1,221,119l 7l 3l Myoming 4 2,500l 97,890l 1890l 95,531l 145,965l 3l 3l Alaska 4 3,000l 531,410l 63,441l 278,718l 144,000l 154,001l <								1
South Carolina 2 3.500l 30,670l *1788 1,340,316l 1,515,400l 9 9 South Dakota 2 2,500l 77,680l 1889l 401,570l 583,888l 4 5 Tennessee 2 4,600l 42,050l 1796l 2,020,616l 2,184,789l 12l 12l Texas 2 4,000l 265,730l 1845l 3,048,710l 3,896,542l 18l 20l Vermont 2 1,500l 9,565l 1791l 343,641l 355,956l 4 Virginia 4 5,000l 42,450l *1788l 1,854,184l 2,061,612l 12l 12l Wisconsin 2 2,700l 24,780l 1863l 958,800l 1,221,119l 7l 3l Myoming 4 2,500l 97,890l 1890l 95,531l 145,965l 3l 3l Alaska 4 3,000l 531,410l 63,441l 278,718l 144,000l 154,001l <	Rhode Island		3,000			428,556	542,610	4 5
Tennessee 2 4,000 42,050 1796 2,020,616 2,184,789 12 12 Texas 2 4,000 265,780 1845 3,048,710 3,896,542 18 20 Utah 4 2,000 84,900 1896 276,749 373,351 3 4 Vermont 2 1,500 9,565 1791 343,641 355,956 4 4 Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 Washington 4 4,000 69,180 1889 518,103 1,141,990 5 7 West Virginia 4 2,700 24,780 1863 958,800 1,221,119 7 8 Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Wyoming 4 2,500 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 531,410 63,441 278,718 1484 1484 14 5,000 151,400 151,400 1 154,001 1 154,001 1 154,001 1 154,001 1 1 154,001 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	South Carolina				*1788	1,340,316		
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Texas 2 4,000 265,730 1845 3,048,710 3,896,542 18 20 Utah 4 2,000 84,900 1896 276,749 373,351 3 4 Vermont 2 1,500 9,565 1791 343,641 355,956 4 Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 Washington 4 2,700 24,780 1863 958,800 1,221,119 7 3 Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Myoming 4 3,000 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 278,718 278,718 144,000 154,001 154,001 1			4,000				2.184,789	12 12
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Vermont 2 1,500 9,565 1791 343,641 355,956 4 4 Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 12 Washington 4 4,000 69,180 1889 518,103 1,141,990 5 7 Wisconsin 2 5,000 56,040 1863 958,800 1,221,119 7 8 Wyoming 4 2,500 97,890 1890 95,531 145,965 3 Alaska 4 3,000 531,410 63,441 145,965 3 Dist. of Columbia 4 5,000 154,001 154,001 154,001 Total 8,557,010 76,218,179 91,972,266 483 531	Utah		2,000	84,900	1896	276,749	373,351	3 4
Virginia 4 5,000 42,450 *1788 1,854,184 2,061,612 12 12 Washington 4 4,000 69,180 1889 518,103 1,141,990 5 7 West Virginia 4 2,700 24,780 1863 958,800 1,221,119 7 8 Wysomin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Wysoming 4 2,500 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 63,441 278,718 Hawaii 4 5,000 154,001 154,001 Total 3,557,010 76,218,179 91,972,266 483 531	Vermont					343,641	355,956	
Washington 4 4,000 69,180 1889 518,103 1,141,990 5 7 West Virginia 4 2,700 24,780 1863 958,800 1,221,119 7 8 Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Wyoning 4 2,500 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 63,441 63,441 1 Dist. of Columbia 4 5,000 154,001 154,001 1 Total 1,357,010 76,218,179 191,972,266 1483/531	Virginia							
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Wisconsin 2 5,000 56,040 1848 2,069,042 2,333,860 13 13 Wyoming 4 2,500 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 63,441 278,718 154,001 154,001 Hawaii 4 5,000 154,001 154,001 154,001 154,001	West Virginia							7 8
Wyoning 4 2,500 97,890 1890 95,531 145,965 3 3 Alaska 4 3,000 531,410 63,441 63,441 53,000 63,441	Wisconsin		5,000			2,069,042		
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Dist. of Columbia. 70 278,718 154,001	Alaska	4	3,000					1 -
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Total	Hawaii	14	1 5,000	1	1			1
	Total	1	1	13.557.010	1			
								Toploof

^{*}Dates of ratifying constitution of original thirteen states.

Note—All have biennial sessions of legislature except Georgia, Massachusetts, New Jersey, New York, Rhode Island and South Carolina, where they are keld annually.

ABBREVIATIONS.

Relating to Law and Government.

AdministratorAdmr.	His (Her) Majesty
AdvocateAdv.	His (Her) Roy. Highness, H.R.H.
Attorney Atty.	House of RepresentativesH. R.
Against (versus)V. or vs.	Tuestice of the Destitatives
	Justice of the PeaceJ. P.
AldermanAld.	LegislatureLeg.
AssistantAsst.	Member of Congress
And others (et alii)et al.	Non prosequitur (he does not
ClerkClk.	prosecute)
CommissionerCom.	Member of Parliament
CommitteeCom,	Notary Public
Common Pleas	Parliament
CongressCong.	Plaintiffplff.
ConstableConst.	Post-OfficeP. O.
	Рости Манения
County Court	Post-MasterP. M.
Co. Commissioner (or Clk)C. C.	Public DocumentPub. Doc.
Court of Common PleasC. C. P.	Queen Victoria (Victoria
Court of Sessions	Queen Victoria (Victoria Regina)V. R.
DefendantDeft., Dft.	Right Honorable Rt. Hon.
DeputyDep.	Republic, Republican Rep.
DepartmentDep.	SolicitorSol.
District Attorney Dist. Atty.	SuperintendentSupt.
His (Her) Brit. MajestyH. B. M.	Surveyor GeneralSurv. Gen.
ario (mor) prior majorty in. p. m. 1	Day to Lot Control with a control with a control of the control of

Ecclesiastical.

By God's Grace (Dei gratia)D. G.
Church, churchesCh., chs.
ClergymanCl.
DeaconDea.
Jesus the Saviour of Men (Jesus
hominum Salvator)I. H. S.
Jesus of Nazareth, King of the
Jews (Jesus Nazarenus Rex
Judæorum)I. N. R. I.
MethodistMeth.

Methodist Episcopal	
ProtestantProt	٠
Protestant EpiscopalP. E PresbyterianPresb	
Reformed, Reformation Ref	
Roman CatholicRom. Cath	
God Willing (Deo Volente)D. V	۰
EpiscopalEpis EvangelicalEvang	
Ecclesiasticalecc., eccl	0

Educational and Professional.

Bachelor of Civil LawB. C. L.
Doctor of Civil LawD. C. L.
Queen's CounselQ. C.
Dominion Land Surveyor D. L. S.
Licentiate of Dental Surgery. L. D. S.
Privy Councillor P. C.
Commander of the Bath C. B.
Fellow Coll. of Accountants.F. C. A.
Fellow Royal Society F. R. S.
Doctor of Divinity D. D.
Bachelor of Laws LL B.

Doctor of LawsLL. D.
Doctor of Medicine M. D.
Bachelor of Arts A. B.
Master of Arts
Bachelor of Music
Doctor of Music
Doctor of PhilosophyPh. D.
Bachelor of PhilosophyPh. B.
Bachelor of Science
Doctor of Science
Civil Engineer

BUSINESS ABBREVIATIONS.

Acct	Account.	inst	(Instant) The
Advtg	Advertising.	7 7	present month.
Agmt	Agreement.	Insol	Insolvency.
Agt	Agent.	IntInvt.	Interest.
Amt	Amount.	J. or Jour	Inventory.
Atty	Attorney	J. P.	Journal page
B, or Bk	Ronk	T. R	Letter Rook
Bal	Ralance	L. B	Pounda
Bbl	Barrel.	L. F	Ledger Folio
B. B	Bill-book or	L. F. Mdse	Merchandise.
	Rank-hook	Mem. or memo	Memorandum.
B. Ex B. P. or Bills Pay.	Bill of Exchange.	Mols	Molasses.
B. P. or Bills Pay.	Bills Payable.	Nat	. National.
B. R. or Bills Rec.	Bills Receivable.	N. B	(Nota Bene) Take
Ro't	Bought.		NOTICO
E_{c}^{Bu} , C , C ' t or ϕ	Bushel.	Net	
U , U t or φ	Cashian	Orn	tion.
Cash	Cash Rook	Q. I. B	Outward Invoice
Cer	Cartificato	$P. \text{ or } p. \dots Payt. \dots$	Page. [Book.
Chgd	Charged	Pcs	Pieces
Ck	Check.	Pd	
Co	Compan⊽.	Pkg	Packaga
C/a	In Care of. fery.	Per. or pr	By the
c, C. O. D	Collect on Deliv-	per ct	(Per centum) By
Com	Commission.	•	the hundred.
Con. or Const	Consignment.	P. & L	Profit and Loss.
Cr	Creditor.	P. O. D Pr	Pay on Delivery.
Cwt	Hundredweight.	Pr	Pair.
Cr Cwt D B	Day Book.	Prem	Premium.
Den. B	Deposit Book.	prox	(Proximo) The
Dft	Diagonat	D C D	next month.
Do on do	(Ditta) The same	P. C. B	Petty Cash Book.
Do. or do Doz	Dozen	Recd	Received.
Dr	Debtor.	S. B	Salas Book
De or de	Days.	S. S	Steamshin
971	Rach	Shipt	Shipment.
E. E. e. g. E. & O. E.	Errors excepted.	88	Sworn Statement
e. g	For example.	St. Dft	Sight Droft
E. & O. E	Errors and omis-	Stg	Sterling.
	sions excepted.	Stg	Sundries.
Ex. or Exch	Exchange.	Tr. or Trans	Transaction.
Exp	Expense.	ult	(Ultimo) The last
fav. F. B. E.	Favor.		month.
F. B. E	Foreign Bill of		(Videlicet) To wit;
fi.fa	Exchange.	210/	namely.
u.fa	done. A writ of	volvsyds	(Vorene) Amingt
	execution.	Vds	Varde Varde
F. O. B		D	JOHAT.
For'd	Forward	¢	Cents. Pounds Sterling.
Frt	Freight.	£	Pounds Sterling.
Ft or ft	Foot or Feet.	d	Pence
Gal	Gallon.	@	At, or to.
Guar	Guarantee.		
Hdkf Hhd	Handkerchief.	90	Account.
Hhd	Hogshead.	型 _C	(Ditto) The same.
Hund	Hundred.	77	Number.
I. OF Inn	invoica.	4	.Check Mark.
I. B	Thetia	11	One and I fourth.
I. B. i. e. Ans.	Inau IS.	12	One and 2 fourths
136700000000000000000	mourance.	A3	One and 3 fourtos

BUSINESS DICTIONARY.

Abatement.-A discount allowed for damage or overcharge, or for the payment of a bill before it is due.

Acceptance. - An assent and engagement to pay a bill or draft

when due.

Acceptance for Honor .- An acceptance made after a bill has been protested for non-acceptance, for the honor of the drawer or any indorser.

Accommodation Paper.-A bill or note to which a party has put his name to accommodate another, who is to provide payment when

due.

Account. - A written or printed statement of debits and credits in any

business transaction.

Account Current .- A detailed statement of the transactions between parties for a certain period, showing the condition of affairs at the current or present time.

Account Sales.—A detailed statement of a commission merchant to his principal, showing his sales, the expenses attending the same, and the net proceeds.

accountant.—A person trained to

keep accounts.

Accrued .- Increase, or interest due and unpaid.

Acknowledgment. - A formal admission made before an officer. Actionaire.—The owner of shares in a stock company, a stockholder.

Actuary.-A registrar or clerk. Generally applied to the manager of a life insurance company.

Administrator.-A person appointed to settle the estate of a testator, or to manage an intestate estate.

Admiralty.-The power that controls naval affairs in Great Britain. -Courts of Admiralty .- A court which decides questions of maritime justice.

Adulteration.-The debasing of an article or substance by spurious or

less valuable admixture.

Ad valorem.—According to value. Advance.—A rise in price, additional profits, stocks above par.

Adventure.-Goods sent to sea at the owner's risk, a speculation.
Adventure in Co.—Goods sent to be

sold on joint account of shippers and consignee.

Advice, - Admonition, or sugges-tions offered, usually in regard to buying and selling goods.

Affidavit. - A written statement made upon oath.

Affreight.-To hire, as a ship, for transporting freight.

Agent.—One intrusted with the business of another, a deputy or factor.

Agio. - A term used to denote the difference between the real and nominal value of money.

Allonge.-A paper attached to a bill of exchange when there are too

many endorsements to be contained on the bill itself.

Allowance-A deduction made, for instance, from the gross weight of

goods.

Ambassador.—A minister employed by one government to represent it at the court of another.

Anker.-A common liquid measure, varying, in different European countries, from nine to ten gallons, Antal.—A wine measure of Hungary, holding about thirteen and a half

Anticipate.—To be before in doing, or pay before due.

Appraise.—To set a value on goods or property.

Appurtenance. - Adjunct or appendage.

Arbitration.-The hearing and decision of a cause between parties in

controversy, by chosen persons.

Arbitration of Exchange. — The deduction of a proportional or ar-bitrated rate of exchange between two places through an intermediate place, to ascertain the most advantageous method of drawing or re-

mitting.
Arrear.-That which remains un-

paid though due.

Assay.-To subject an ore to chemical examination to find the amount of any metal contained in it.

Assess.-To fix a certain value for the purpose of taxation.

Assets.—The entire property of an

individual or company.
Assignee.—One to whom something is assigned, usually one who receives property to dispose of for the benefit of creditors.

Assignor.-One who assigns an interest to another.

Assignment.—Placing property into the hands of assignees.

Association.-The union of a num ber of persons for some special

Assume -To take on another's debts. Attachment. -- A seizure by virtue of a legal process.

Attest.-To bear witness, to certify. Attorney (Power of).—A written authority from one person empow-ering another to act for him.

Attorney in Fact .- An agent with full power.

Auctioneer. One who sells goods at

a public sale. Auditor.—A person appointed to examine and settle accounts.

Avails. — Profits of property disposed of, proceeds of goods sold. Average. - A proportional share of a

general loss; also, a mean time of payment for several debts due at different times.

Avoirdupois. - Commercial standard of weight in United States and

England.

23

Bail .- The security given for releasing a person from custody.

Bailee.—The person to whom goods

are entrusted.

Bailor. - One who furnishes goods to

another. Bailment .- A delivery of goods in

trust.

Balance.—The excess on one side; or what added to the other makes equality in an account.

Balance Sheet .- A statement in condensed form showing the con-

dition and progress of business.

Ballast. — Any heavy material placed in the hold of a ship to

steady it in the water.

Ballot.—A Swedish term signifying ten reams of paper; used also to designate a small bale or package. Balsa.—A kind of float or raft used on the coast of South America for

landing goods through a heavy surf.

Banco.—A commercial term used in Hamburg to distinguish bank money from common currency.

Banking.-The business of a banker, or pertaining to a bank.

Bankrupt .- An insolvent, one who is unable to pay his debts.

Bank Stock.—Shares in the capital stock of a bank.

Barratry. - An intentional breach of trust, particularly any fraud by the master of a ship.

Sarque.-A three-masted vessel carrying no square sails on her miz-

zen mast.

Bazaar .- A word of Eastern usage, signifying a place of exchange or general market place, a repository of fancy articles - especially of dress.

Beacon .- A signal or light for the guidance of mariners; usually erected and sustained by the government. Bidder .- One who bids or offers a

price.

Bill.—A name given to statements in writing; as goods; a note; a draft; a law not enacted; exhibition of charges.

Bill of Exchange. - A bill ordering one party to pay another a certain

sum of money.

Bill of Lading.—Written statement of goods shipped with terms of delivery. Bill of Parcels.—A detailed account

of goods sold.

Bill of Sale .- A formal instrument for the transfer of goods and chat-

Bills Payable.—Notes to be paid by a party.

Bills Receivable.—Notes to be paid to a party.

Board of Trade. - An association of business men for the advancement of commercial interests.

Bona Fide.-In good faith, in reality.

Bond.—A writing, under seal, bind-ing a person and his heirs to fulfill certain obligations.

Bonded Goods. -Goods in charge of the officers of customs for the duties on which bonds are given at the custom house

Bonds.—A premium or extra sum paid for a loan, a charter or other

privilege.

Book-Debt.-An entry or charge on a ledger; called also an open account, in contradistinction to a written promise or note.

Bottomry.—A contract by which the owner of a ship pledges it as security for money loaned him.

Bottomry Bond. - A bond given upon a ship to secure the repay-ment of money borrowed. Breakage.—An allowance made by

the shipper or seller on certain descriptions of fragile goods.

Breach.-Violation of an agreement in contracts.

Breadstuffs. - Material for bread, grain, meal or flour.

Brief.—A paper containing the leading points in a lawyer's argument. Broker.—A person who transacts business for another, commonly in

stocks, money, etc., using the nama of his principal. Brokerage.—The fee charged, for transacting business, by a broker,

Stills and Bears.-Persons engaged in the gambling transactions of the stock exchange. The bulls are personally interested in tossing up the prices of certain goods while the bears are fighting to pull down prices.

Bullion .- A commercial name for

uncoined gold or silver.

Capital.-The stock employed in trade; the fruit of past labors saved.

Capital Stock .- Capital of an incorporated company.

Carat.—An imaginary weight that expresses the fineness of gold.

Cargo.—A ship's lading, or freight. Cashier.—One who has charge of money and superintends the re-

ceipts and payments.

Centage.—A rate by the hundred. Certificate of Ctock.—A written instrument issued by a company cer-tifying the number of shares the holder owns.

Certified Check .- A check which has been certified by the bank on which it is drawn, making the bank absolutely responsible for its pay-

Chancellor.-The chief judge of a court of chancery or equity.

Charter.—An instrument in writing from the sovereign power or legislature, conferring certain rights and privileges.

Charter Party.—A written agree-nt by which a ship is hired un-der specified conditions.

Chattel .- Personal property. Choses in Action .- Things of which the owner has not possession, but merely the right of legal action, for possession, as notes, accounts, etc. Choses in Possession.—Things in

possession of the owner. Circulating Medium. - Cash and bank notes payable on demand; the medium of exchange.

Clearance. - Permission from the custom house officer for a ship to

sail. Clearing House .- A kind of banking exchange for the convenience of daily settlements between banks.

Clerical Error. -An error in calculation or other accidental error on books or documents.

Coasting .- Sailing near land, or vessels trading between ports of the same country.

lodicil.—A supplement to a will.

Collaterals .- Pledges or security for loans of money, or other indebt

Commerce.-The exchange of mer-

chandise on a large scale.

Commercial Paper.—Bills of exchange, drafts or promissory notes given in the course of trade.

Common Law.—The unwritten law receiving its force from universal reception, as distinguished from

statute law.

Commission.-The brokerage or allowance made to an agent or factor for doing business for another.

Cooperage. - Charges for putting hoops on casks or bales.

Compact.—A covenant or contract between different parties. Company .- A number joined to-

gether to undertake some common

enterprise. Compound. - To adjust by agreement differently from the original

terms, to settle by compromise. Compromise. — A friendly settle ment of differences by mutual con-

cessions.

Consignment.-The act of consigning, as a charge for safe keeping and management, as goods, property, etc.

Consignee. -One to whom goods are

intrusted.

Consignor.-The person who com

mits goods to another.

three per Consols - In England cent. annuities granted at different times, and consolidated into one stock or fund.

Consul.-A person commissioned to reside in a foreign country as an agent of the government.

Contraband.—Prohibited merchan-

dise or traffic. Contract .- To make an agreement,

to covenant. Copartnership.—A joint interest in business.

Counsellor.—A legal adviser. Counterfeit.—To copy or imitate without authority, with a view to

defraud; a forgery. Countersign.—To sign, in addition to the name of a superior, that of the secretary or subordinate officer, as bank notes are signed by the president and countersigned by the cashier.

Coupon. — An interest warrant printed at the end of bonds, to be cut off when the interest is paid. Court.—An official assembly legally

met together for the transaction of indicial business.

Bovenant -- A formal contract be-

tween two or more parties.
Coverture.—The condition of a married woman, being considered as under the shelter and protection of her husband.

Credentials.-Testimonials, or certificates, showing that a person is entitled to credit, authority, or

official powers.
Credit.—Trust given or received;
mercantile reputation entitling one to be trusted; also the side of an account on which payment is entered.

Greditor.-One to whom money is due.

Credit Mobilier .- A name given to a joint-stock company in Paris, established in 1852, with exceptional charter privileges. The term has become familiar to interligent persons in this country through the Congressional investigation of the Credit Mobilier Company of the Pacific Railroad.

Curb-Stone Brokers.-A term applied to a class of stock operators in New York, who do business on

the sidewalk or pavement.

Currency.—That which circulates as a representative of value.

Customs.—Customary toll, tax, or tribute on imported or exported goods.

Custom House .- A building where duties are paid and vessels entered and cleared.

Damages.-A compensation to one party for a wrong done him by another, the estimated reparation

in money for the injury.

Days of Grace.—Days granted for delay in the payment of a note, usually three after it is due.

Debase.—To lessen in value by adul-

teration.

Debenture .- A certificate given by the collector of the port of entry, to an importer for drawback of duties on imported merchandise, duties on which, when the mer-chandise is exported, are to be refunded.

Debit.—A recorded item of debt the debtor side of an account.

Debt.-That which is due from one

person to another.

Debtor.—The person who owes another either money, goods, or serv-

Decimal. - Having a ten-fold increase or decrease. Decimal fractions. Having any power of ten for a denominator.

Deed .- A sealed instrument in writ-

ing used to transfer property.

Defalcation.—A diminution, deficit.

Defaulter.—One who fails to discharge a public duty, as to account for money entrusted to him.

Defendant .- The party sued in an

action.

Deficit. - A deficiency: the difference between an account's statement of the assets and the assets them-

Del Credere.-A commercial term implying a guarantee of the solvency of the purchaser.

Delivery.—Giving money or goods to another.

Demand .-- A peremptory urging of a claim, an exaction.

Demise. - To convey, to bequeath by will.

Demurrage.—Allowance for detention of a ship.

Deposition.—Testimony of a wit-

ness put in writing.

Depositary.—A trustee, one to whom something is committed for safe keeping.

Deputy. One appointed to act for another, a representative or dele-

Diplomacy. -- The science of conducting negotiations between nations.

Disability.-Incapacity to do a legal act.

Discount.-An allowance or deduction made for the payment of money before it is due.

Discount Days .- The days of the week on which the directors of a bank meet to consider paper offered for discount.

Distress for Rent .- A landlord's taking personal property found on the land for rent due.

Dividend.—A percentage of profits paid to stockholders.

Divorce.—Dissolution of the marriage relation.

Donee.—The person to whom a gift or donation is made.

Donor.-One who confers anything gratuitously.

Dormant.—Silent partner, one who

takes no share in the active business, but shares profit.

Dower.-Interest of a woman in the real estate of her deceased husband. Drawback.—Money paid back on goods exported, a part or the whole

of the duty charged. Draft.—An order from one man to

another directing the payment of

money, a bill of exchange. Drawee.—The person to whom a bill of exchange is addressed, the payer. Drawer.-One who draws a bill of exchange, or an order for payment.

Dress Goods .- A term applied to fabrics for the garments of women and children, most commonly to those made of mixed materials, as silk and cotton, and silk and worsted, etc.

Due-Bill. - A written acknowledgment of debt; not transferable by

mere endorsement.

Dun.—To press urgently the payment of a debt. Duplicate.-A copy or counterpart

of anything.

Duress.-Personal restraint, or fear of personal injury, or imprison-ment. It nullifies all contracts into which it enters.

Duties .- A tax levied by the government on imported goods; paid to the government on imports and exports.

E

Earnest.—A pledge, something given by the buyer to the seller to bind the bargain, and prove the sale.

Effects.—Goods, or personal estate. Eleemosynary.—Founded by char-ity, or intended for the distribution of charity, as a hospital or college. Ell.—An English measure of length,

equal to 14 yards; the Scotch ell is 1,50 yards.

Embargo.-A detention of vessels in port, prohibition from sailing.

mbarrossment. - Perplexity arising from insolvency, or temporary

inability to discharge obts.

Embassy.—The public business intrusted to diplomatic officers.

Engrosser. - One who buys large quantities of any goods in order to control the market

Embezzlement. - To appropriate public money to private use by a breach of trust.

Eminent Domain .- The power of the State to take private property

for public purposes. Emporium.—A place of extensive commerce, a market place.

Endorse. -To endorse a note by writing the name on the back.

Entreport.—A bonded warehouse, a storeroom for the deposit of goods; a free port.

Equity.—A system supplemental to law, qualifying or correcting it in extreme cases.

Estate.—The degree, quantity, nature, and extent of interest which a person has in real property.

Estoppel. - A stop, a bar to one's alleging or denying a fact contrary to his own previous actions: allega-

tion or denial.

Exchange.-Act of bartering; a bill dra n for money; a place where merchants meet; difference between the value of money in two places, or premium and discount arising from purchase and sale of goods.

Excise. - Taxes or duties on articles produced and consumed at home:

internal revenue tax.

Execution.—A written authorization to enforce a judgment.

Executor.—The person appointed by

a testator to execute his will. Executory.—To be executed in the

future. Exports.-That which is carried out

of a country, as goods and produce in traffic.

Ex Post Facto.—Aft the act. Express.—A courier; also regular

and quick conveyence for packages, etc.

Face.—The amount expressed on a note or draft.

Factor.—An agent who buys and sells in his own name, being intrusted with the goods, in this respect differing from a broker.

Facture.-An invoice, or bill of par-

Failure.—Becoming bankrupt, suspension of payment.

Fac-simile.—An exact copy or like-

Favor.-A note or draft is said to be

in favor of the payes. Fee Simple.—In the United States, an estate held by a person in his own right and descendable to his heirs.

Fiduciary.—In trust. Finance.—Revenue, public money, income.

Financier.—One skilled in financial operations, a treasurer.

Firm. - A business house or company; the title used by a business house.

Firkin. - A measure of capacity; the fourth part of a barrel; or eight or nine gallons.

Fiscal. -- Pertaining to the public

treasury or revenue.

Fixtures. -The part of the furniture of a store or office, which is not

partitions, etc. movable, as gen pipes and burners,

o. b.-Free on board; the bill or invoice with f. o. b. includes the transportation to the shipping port and all the shipping expenses.
Foreclose.—To cut off by a court

judgment from the power of redeeming mortgaged property.

Forestall.-To buy goods on their way to market, intending to sell again at a higher price.

Forgery.-Fraudulently changing or making a written instrument.

Folio.-A page in an account book, sometimes two opposite pages bearing the same serial number.

Franc.-A silver coin used in France, equal to about nineteen cents.

Frank.-To exempt from charge for postage.

Fraud.-Injurious stratagem, deceit. Free Trade.—The policy of conducting international commerce without duties.

Freehold.-Land held by free tenure, or in fee simple, subject to no

superior or conditions.

Freight.-Merchandise being moved from one place to another; the price paid for carrying freight; also to load or burden.

Funded.-Turned into a permanent loan on which annual interest is paid.

Funds.—The supply of money or the capital.

C

Gain. - Advantage, acquisition, profit.

Garbled. -- Drugs, spices or other goods which have been sorted or picked over and freed from impurities.

Gauging .- Measuring the capacity of casks, etc.

Gist.—The principal point of a question, the pith of the matter.

Go-between .- Agent for both parties.

Good Will.-The advantage accruing from a successful conduct of busiwess; it is a property that may be cransferred.

Grant.-A transfer of property by deed; a conveyance made by the

Government.

Gross.—Twelve dozen; gross weight; weight of goods including dust,

dross, bag, cask, etc.

Guarantee (or Guaranty).—A security or warranty given by a third party; one who warrants

Guarantor.-One who promises for another's debt.

Habeas Corpus. - A writ to bring a party before a court, to prevent false imprisonment.

Haberdasher. - A seller of small

wares, as thread, pins, etc.

Hand-book .- A book of reference; a manual.

Hand-money .- Money paid by the purchaser at the closing of a contract or sale.

Harbor .- A port or haven for ships. Haven .- A port or shelter for ships; a harbor.

Hazardous.-Precarious, dangerous. uncertain.

High Seas .- The unclosed waters of the ocean outside the boundaries of any country.

Holding-Over .- A tenant's remaining in possession of the premises without the consent of the landlord.

Hollow-ware.-A trade name for camp and kitchen utensils made of

cast iron or wrought iron.

Honor. — To accept and pay when

Husbandage. — An owner's or an agent's commission for attending to a ship.

Hypothecate. - To pledge for the security of a creditor.

Impolitic. - Wanting in management; not politic.

Import.—To bring in from abroad. Importer.—The merchant who imports goods.

Imposition.-Tax, toll, duty or excise prescribed by authority.

Impost.—A tax or duty imposed on imported goods.

Indemnify.—To recompense for loss, to reimburse. Indenture.—A mutual agreement in

writing.

Indorsement. - A writing on the back of a note

Indulgence.-Extension of time of payment; forbearing to press for Inland Bills. - Drafts or bills of ex-

change drawn on a party in the same State as the drawer.

Insolvency.-Inability to discharge debts when due.

Insurance.-Indemnity from loss: the premium paid.

Installment.-Payment of parts at different times.

Instrument .- A writing containing an agreement.

Interest.-Premium paid for the use

of money Internal Revenue.—The part of the revenue of our Government which is collected in the form of internal duties.

Intestate.—Without a will; not disposed of by will.
In toto.—Wholly, entirely.
Inventory.—A list of merchandise

made periodically for the purpose of knowing the quantity and value of unsold goods, in order to ascertain the condition of business.

Investment. - The laying out of money in the purchase of some

species of property.

Invoice .- A written account or bill of merchandise bought; a bill of items.

Jettison. - Throwing goods overboard in case of peril to lighten and preserve the vessel.

Jointure. -An estate settled on a wife at the husband's death, for her life at least.

Joint Stock .- Stock held in com-

pany.
Joint Tenancy.—Joint occupancy; not so close intimacy as partner-

Journal.-A book used to classify and arrange business transactions.

Judgment Note. - A note in the usual form, with the addition of the power to confer judgment if not paid.

Jurisdiction. - The power of exercising judicial authority.

K

Kilogram.-The French measure of weight equal to 21 lbs. avoirdu-

pois, or 1000 grains.

Kiting or Kite Flying.—Exchanging checks on different banks for the purpose of obtaining the use of money for a single day.

Lame Duck .- A stockbroker's term for one who fails to meet his engagements

Larceny.-Theft; taking personal

property belonging to another.

Law-merchant.—The general body of commercial usages in matters relative to commerce.

Lay-days.—Days allowed for load. ing and unloading a cargo.

Laydown. - A phrase used to express the entire cost of a commodity, including transportation, etc., at a place remote from its production or purchase.

Lease. - Renting lands, etc., the

written contract.

Legacy.-A gift, by will, of personal property. Ledger.—A book in which a sum-

mary of accounts is preserved.

Lessee.—One who takes an estate by lease.

Letter of Attorney.—A writing by which one person authorizes an-other to act in his stead, commonly called power of attorney.

Letters of Credit .- A letter authorizing credit to a certain amount to

be given to the bearer.

Liability.—Obligation; debts. License.—A grant of permission by the authorities.

Lien.—A legal claim on property for

Lieu.-Instead; in place of.

Liquidate.-To clear off; to settle;

to pay as debts.

Lloyds.-A marine insurance association, or society of underwriters in London, deriving its name from the coffee house where it originated. The records of this society contain a complete history of the sea, so far as concerns the number of ship-wrecks, collisions, fires, piracies, mutinies, etc.

Loan.-A thing furnished to another for temporary use, on condition

that it be returned.

Long Price. - Price after the duties are paid.

PAR I

Malfeasance.-Evil conduct; illegal

Mandatary.-A person to whom a charge is given, or business in-trusted.

Manifest.—An invoice of a ship's

Manufacture.—The process of reducing raw material into a form suitable for use.

Marine. - Relating to the ocean; nautical.

Maritime Law.-Law relating to harbors, ships, seamen.

Mark .- A weight of gold and silver used as a measure for these metals in Europe.

Mart.—A commercial center; a market place.

Material Men.-Men who furnish materials for ships, houses, etc.

Maturity.—The date when a note or draft falls due or is payable. Mercantile Law.—Law pertaining

to trade and commerce.

Merchandise.-Whatever is bought

and sold in trade.
Merger.—The absorption of a thing of lesser importance by a greater, whereby the lesser ceases to exist, but the greater is not increased. For instance, a note on which a judgment is recovered is absorbed by and merged in the judgment.

Metallic Currency. - Silver and gold coins forming the circulating

medium of a country.

Mint. - The place where money is

coined.

Misfeasance. - A trespass; doing improperly an act that might be

done lawfully.

Mitigation.—The abatement of a judgment, penalty or punishment.

Monetary.—Pertaining to, or con-

sisting in, money.

Money.-Coin; any currency lawfully used instead of coin, as bank notes.

Money-Broker. - A broker who

deals in money.

Monopoly. — Sole permission and lower to deal in any species of coods.

Mortgage.-To convey property for the security of a debt, the conveyance being void when the debt is paid.

Mortgagee .- One to whom a mortgage is given.

Mortgagor. - One who gives a mortgage.

National Banks.-Banking institutions, established in the United States under the provisions of an act of Congress, the object of which is to unify the currency.

Navigation. - The science of conducting vessels on the ocean.

Negotiate. - To transact business: to hold intercourse in bargain or trade.

Negotiable. - Transferable by assignment or indorsement to another

Net.-Clear of all charges and deductions.

Net Proceeds.-The sum left after deducting commissions or discount. Non-Feasance. — An omission of what ought to be done.

Wotary Public .- An officer appoint.

ed by the governor to take affidavite, acknowledgments, to protest bills and notes, etc.

Note.—A written or printed paper acknowledging a debt and promising payment.

Null.-Void.

Open Account .- A running or un settled account with an individual

or firm.

Open Policy .- An insurance policy covering undefined risks, which provides that its terms shall be definite by subsequent additions or endorsements.

Option. - A stockbroker's term for the privilege of taking or deliver-ing at a future day a certain number of shares of a given stock at a

price agreed upon. Ordnance.—All kinds of large guns. Ostensible Partners. Those

known to the public.
Ouster.—Turning out of possession any one entitled to it.

Out-Standing Debts. - Unpaid debts.

Overt.—Not covert, open, manifest. Owe.—To be obliged to pay.

D

Panic. - A financial crisis among business men, generally the result

of overtrading and speculation.

Par.—State of equality in value, equality of nominal and actual value.

Parol. - Oral declaration, word of mouth.

Partnership.—Union in business: business firm

Par Value.-Face value or value named on certificate of stock.

Pass-Book. - A book in which a trader enters articles bought on credit, and then sends it to the creditor for his information.

Passport .- A document carried by neutral merchant vessels in time of war for their protection, also a government document given to travelers, which permits the person therein named to pass from place to place.

Pawn - Broker. - One who lends money on pledge or the deposit of goods.

Pay.—To make requittal, to give an

equivalent for goods. Payee.—One to whom money is to be paid.

Payer .- One who pays.

Pigments. -Paints.

Pledge.-A pawn, personal property

deposited as security.
Policy of Insurance.—The writing or instrument in which a contract of insurance is embodied. Politic.-Well advised, adapted to

its end.

Port of Entry. - A harbor where a custom house is established for the legal entry of merchandise. Preferred Stock. — Stock taking

preference over the ordinary stock. Premises. — The thing previously mentioned; houses, lands, etc.

Premium.—The percentage paid for

insurance; the excess of value above par.

Price.-Current value, or rate paid

or demanded in barter.

Price Current .- A printed list of the prevailing prices of merchandise, stocks, specie, bills of exchange, rate of exchange, etc.

Prima Facie -At first view or appearance.

Principal.—An employer, the head of a firm; a capital sum place at

Procuration .- A power of attorn ey; an instrument empowering one person to act for another.

Pro Rata. - A proportional distribu-

tion.

Protest.—A formal declaration, made by a notary, for want of pay-ment of a note or bill of exchange. Proxy.-A person appointed to rep-

resent and vote for another.

Quarantine. - To prohibit a ship from intercourse with shore, when suspected of having contagious diseases on board.

Quasi.-As if, in a manner, in a cer-

tain sense.

Quo Warranto.- A writ by which the government ascertains by what warrant a corporation acts.

Rate.—The ratio or standard.
Real Estate.—Property in houses
and lands.

Rebatement .- Deduction on account of prompt payment, discount.

Receipt. - An acknowledgment of

payment in writing. cial treaty between two nations socuring mutual advantages.

eclamation. — A claim made against the seller of goods which Reclamation. prove deficient or defective.

Refund.—To repay; to restore. Release.—To give up a claim against

a person or property.

Reprisal.—The act of seizing ships or property as indemnity for unlawful seizure or detention

Resources. - Available means funds. Respondential Bond.-A pledge of

a cargo at sea. Retail.—Selling goods in small

quantities.

Retainer.-The fee paid to a lawyer when engaging him.

Retire.-To take up one's note before due, to relinquish business.

Revenue.—Income, return; annual income of a nation for public uses. Revenue Cutters. — Small_vessels employed to aid revenue officers in the collection of duties, or to prevent smuggling.

Revocation .- The act of calling back, recalling some power or

authority conferred.

Salvage .- A compensation allowed to persons for voluntarily saving a ship or her cargo from peril. Seaworthy. — Fit for sea; a ship worthy of being entrusted with a

cargo.

Sans Recours .- Without recourse. Secondarily. - Applied to the en dorser of a note or drawer of a bill, signifying that he is only conditionally liable, or liable if the mak-

er and drawee fail. Beize.—To take possession of, by virtue of a warrant or legal authority.

Seller's Option. - A term mostly confined to the sales of stocks, for a sale which gives to the seller the option of delivering the article sold within a certain time, the buyer paying interest up to delivery. Shipment.—That which is shipped.

Sight.-Time of presenting bill to

the drawee.

Signature.—The name of a person written with his own hand, signifying his consent to the writing above it.

Sinking Fund.-A fund set apart from earnings or other income, for the redemption of debts of government, or of a corporation.

Sleeping Partner.—One who shares the profits of a business without letting his name appear, or taking

part in it actively.

*lop-shop.—A store where cheap ready made clothing is sold.

smuggler. - One who avoids the payment of duties by secretly importing goods into a country; a vessel engaged in smuggling.

Eolicitor. - An attorney or advocate, the title of a person admitted to practice in the court of chancery or

equity.

Solvency.-Ability to pay all debts or just claims.

specialty.—A contract or obligation ander seal.

Statement.-Usually a list of property, or resources and liabilities. Statistics .- A collection of facts ar-

ranged and classified.

Statute.—A positive law, established by act of Legislature.

Stipend.—Settled pay or compensation for services.

Stipulation .- A contract or bargain. Stock.-Money invested in business. tocks. - Property consisting of shares in joint stock companies. Stocks. - Property

Stock Broker and Jobber.—A broker who deals in shares or stocks.

Stoppage in Transitu.-The seller of goods upon credit resuming possession after their shipment before they get into actual possession of the buyer.

Sue.-To seek justice by a legal proc-

Surcharge.-An overcharge. Surety.-A bondsman, a bail, se-

curity.

Suspend.-To stop payment.

Suspense Account. - An account used to contain balances of personal accounts which may be considered aoubtful.

Sutler .- An authorized vender of provisions, etc., to soldiers in camp

or garrison.

Tacit.-Implied but not expressed. Tally Man .- One who receives pay ment for goods in weekly installments.

Tare.—An allowance in weight for the cask in which goods are con-

tained.

Tariff.-A list of duties to be imposed on goods imported or exported.

Tax.—A levy made upon property for

the support of the government.

Teller.—An officer in a bank who re-

ceives or pays money.
Tenants in Common. — Persons holding lands, etc., by several and distinct titles, and not by joint tille.

Tenant.-One holding property up der another. Tenement.—That which is held.

Tender.-To offer or present for ac-

ceptance. Tenure. — The manner of holding

property in lands.
Testator.—The person leaving a valid will.

Textile Fabrics. - All kinds of woven goods, generally restricted to piece goods.

Tickler.-A book containing a memoranda of notes and debts arranged in the order of their maturity.

Time Draft.-A draft maturing at a future specified time.

"onnage.—The weight of goods car-

od in a boat or ship.
Tert.—Mischief, any wrong or injury.

Trade Discount .- An allowance or discount made to a dealer in the same trade. Transact. -To perform commercial

business, to conduct matters.
Transfer.—To convey right, title, or

property.

Transship. - To transfer merchandise from one conveyance to an-

Treasury. - A place where public revenues are deposited and kept.

Treasury Notes.—Notes of various denominations issued by the government, and received in payment of all dues, except duties on imports.

Tret .- An allowance to purchasers for waste of 4 pounds on every 104 pounds of weight after the tare has

been deducted.

Trustee. -One who is entrusted with property for the benefit of another

Ultimo or Ult .-- Last month.

Uncurrent .-- Not current, not passing in common payment as uncurrent coin, notes, etc.

Underwriter.—An insurer, so-called because he underwrites his name to the conditions of the policy.

Usage of Trade.-Custom, or the frequent repetition of the same act in business.

Usance.-Business custom which is generally conceded and acted upon. Usury.—Exorbitant interest, form-

ing merely interest.

Valid. - Having legal strength @ force.

Walue .- Rate of estimated worth: amount obtainable in exchange for a thing

Value Received. - Phrase used in

notes and bills. Vend.-To sell.

Fendee. - The person to whom a thing is sold.

foid.—Null, having no legal or binding force.

Voldable.—Having some force, but capable of being adjudged void.

Youchers.—A paper attesting the truth of any thing, especially one confirming the truth of accounts.

UY.

Wages .- Hire, reward, salary. Waiver .- The act of waiving; of not insisting on some right, claim, or privilege.

Wares.-Coods, merchandise, com-

modities.

Warrant .- A precept authorizing an officer to seize an offender and bring him to justice; also to insure against defects.

Warranty.—An agreement to make

good all defects in an article sold. Water-logged.—Said of a ship when she has received so much water into her hold by leakage as to become unmanageable.

Way-bill .- A document containing a list and description of goods sent

by a common carrier by land. Wharfage. - Fee or duty for using a

wharf. Wharfinger.-The proprietor of a wharf.

Wrecker.-One who searches for

the wreck of vessels. Wreck-Master.—A person appoint ed by law to take charge of goods.

etc., thrown ashore after a ship wreck. Writ. -An order of court.

DICTIONARY OF LEGAL TERMS.

Alibi.-In another place.

Alimony .- Allowance by court to wife from husband living separate from her.

A vinculo matrimonii.—From the

bonds of matrimony.

Bequeath.—To give personal property by will.

Compos Mentis .- Sound mind, Contempt.-Violation of rules or orders of a court of justice or legis-

lative body. Crime.—Violation of law punishable by the State.

Devised.-To give real estate by

Defeasance.-An instrument defeating the force of some other deed.

Disseized .- Unlawfully put out of possession.

Easement.—Privilege, like a way through another's land, watercourse, etc.

Entail.—An estate limited in descent to a particular heir or heirs.

Escheat.-Falling of real property to the State.

Fee.—Hereditary estate. ee-tail.—Estate limited to certain heirs by will of the first donor.

Fieri Facias.-Writ of Execution.

Heirloom .- Chattel descending to heir instead of going to administrator.

Investiture.—Giving possession. Judicature.—A court of justice. Jurisprudence.-Laws interpret

ing and applying them. Leasehold.-Lease of land or tenements.

Lex Loci.-Laws of the place.

Mandamus.-Writ of superior court to inferior tribunal, etc., command-ing performance of specified duty. Moiety.—One-half of estate, goods

or profits.
Non-age.—Under twenty-one. Parcenary.-Holding lands

tenements in copartnership. Particeps Criminis .- A helper of

the criminal. Replevin .- Recovering goods wrong-

fully taken. Reprieve.—Warrant suspending ex-

ecution of sentence. Riparian.—Rights of water-courses.

Seisin.-Possession intending claim freehold interest.

Vi et Armis.—By force of arms. Writ of Capias.—Writ commanding

officer to take the person.

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